

# International Abstract of Surgery

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# Surgery, Gynecology and Obstetrics

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JANUARY 1914

# ABSTRACTS OF CURRENT LITERATURE

# GENERAL SURGERY

# SURGICAL TECHNIQUE

### ASEPTIC AND ANTISEPTIC SURGERY

Jungling O No Danger of Iodine Interiestion from Skin Disinfection with Tincture of Iodine (Bedingt die Methode der II undesinfektion mit Jodinktur eine G f hr der Jodi toxikation für den openerenden Arxi) If nehen med B chusche 913 lx 1766 By Zentralbi ( d ges Chir u i Grenzgeb

In pite of the comparative heaviness of sodine the indire content of the air of the operating room is greatest over the field of operation During five hours at the operating table the surgeon breathes in about 35 mg of rodine Examination of the blood however showed that there was no increase in the lymphocytes or other change in the blood picture and therefore the conclusion is that jodine disinfection is without danger

Roehler II Disinfection of the Field of Opera-tion with Thymol Alcohol (Dessnekton des Operationsleides mit Thymolallohol) Denis he sul artil Elseke Berl 19 3 xlu 6 9 By Ze 17abl 1 d ges Un Crenzgeb

Disinfection with thy mol alcohol as suggested by King has the following advantages over that with tincture of iodine 1 The skin irritation is less 2 In gotter and Basedow disease the possibility of indine absorption is a oided. I There is no ds-coloration. 4 The clothing is not stamed. 5 It is cheaper. 6 The solution as well as the crystal. keep indefinitely king a method is warmly commended

### **ANÆSTHETICS**

llerb, I C : Administration of Alkaloids before J (m M A r g 3 kn 834 B 5 rg (ynec & Obst

lierb decrees the routine use of fixed doses of morphine scopolamine or atropine prel minary to

general anæsthesia as an evidence of unsound and unscientific practice. On account of the danger involved they should be employed only when an experienced anæsthetist is in charge of the case. But a good etherizer can without such premedication usually induce an anasthesia gently and carry it through smoothly with little after-ackness. The advantages which have been claimed for the method are not enough to offset the risk involved in the depressant effect upon respiration and on renal function the toxic effect on the central nervous system the strong diminution of the secretions and the general beightening of the toric effect of the anæsthetic itself

The only indication for their use in the author's opinion is in local analgesia. The contra indications are as follows In patients in whom the re pira tory center is depressed or likely to become depressed through operative procedures obstructive dy spncea due to grow th within or without the traches causing pressure or exophthalmic goiter in opera tions about the mouth or throat in the case of debilitated or cachectic persons or those suffering with cont nued sepsis in patients presenting any degree of tupor or those susceptible to morphine in child en and elderly people and when untrained mexperienced anysthetists are administering the anasthetic ALBERT I RELIGIED.

Boothby W M Ether Percentages J Am M 0 3 bu 83

B Surg ( ) nec & Obst

Boothby confirms the determinations of Connell with the anasthetometer that without reference to with the auxiliary matter that manufacture the age of physical condition the inspired air must contain 30 per cent of other vapor by weight to saturate the blood sufficiently for the induction of full surgical anasthesia and that after relugation a 15 per cent vapor is strong enough to prevent diffu sion outward from the tissues and to maintain the

requisite ether content of the blood. To allow of the general application of these findings he procreds to determine the percentages obtained ex perimentally with ordinary methods of etherization

For vapor methods he uses air a meter to measure off the volume of air per minute a Wolffe bottle containing ether over which the air is passed to a gas balance adjusted to give the ether percentage He finds that the faster the flow of air the lower the percentage of ether which expiring the difficulty and frequent impossibility of inducing anastheur by a vapor apparatus in a person of great lung capacity with respiratory centers aroused by stimulants or nervous excitement. A much higher percentage of ether will be carried over if the ether bottle is immersed in a bath containing warm water (not higher than og I the boiling point of ether) without affecting the temperature of the anasthetic vapor delivered to the patient. The use of chlo reform to re nforce the ether in a vapor apparatus is madvisable because a turn of the value may send in a concentrated dose and cause death. If the ether I warmed it i w neces ary to use chloreform as a vapor of any desired strength may be obtained

For the drop method with the open mak he used an artificial triches and f und that with in luction (30 per cent ether vapor) the temperature of the inspired mixture was 53 6 F after relaxation (10 per cent vapor) it rose to 73.4 \( \Gamma\) and later (15 per cent vapor) still high r In alcohol cs city per cell. your same got a celler apparently exerts greater excutatory power in the respiratory center than in non-alcoholica. Anturally a much greater quantity of ether is required to bring the larger volume up to the 30 per cent recun use for induction of anaxishesa. In excent requi ite for induction of anasthesia pert anastheti t will induce an anasthesia rapidly and yet smoothly without cruving uffocation and accordingly deep breathing. The percentage may be increased by hold ng the hands in turn on the side of the mask so a to get greater vaporization from their warmth

Boothby shows by calculati a that loss of heat by the body due to warming the anvith tie apor within the air pa sages I negligible in comparison with the loss of heat from the body su faces duri g an operation Warming the anasthetic vapor before inspiration is accordingly a futule procedure an I it is far more important to keep the body dry and ALBERT LERE PRIED WALTE

Intratracheal In ufft ti n Anses Peck G. H. Intratracheal In uffi ti n Anses thesia (Melt er Auer) Report of a Series of F ur H ndr d and Tw 1 Ga to J dm H By Surg ( yeer & Olet 9 3 lxi 830

This paper deal with the author's personal ex persence with tratracheal insuffiction anasthesia in a series of 412 cases which included a great variety of cond tion H s conclusio s are

Intratracheal insuffiction has muny advantages over other methods in certain classes of cases

2 The difficulty of intubating and the necessary of first inducing full surgical anaesthesia makes it unsuitable for many short simple operations

3 If properly done it is absolutely safe and free from deleterious after-effects

4 It is the ideal method for intrathoracic opera

tions

5 It greatly lessen operatic shock (a) through absolute relief of strain on the respiratory apparatus and circulatory and nervous systems and (b) through the even advantageous degree of the antesthesia maintained. This is especially evident in aged an I debilitated patients

6. It presents a paration of mucus saliva or blood into the traches and makes preliminary tracheotomy unnecessity in operations on the tongue jaws, mouth nose and pharyna It thus

prevent a piration pneumonis

7 It is especially useful in operations about the
bead and neck an I in awkward operations in gen eral.

The degree of an esthesia is under perfect con In ufflation of pure air f r the last few moments of the operation hastens the reco ery of con sciousness and minimizes the after effects. ALPRED II NORMAR

Donald on H J : A Year's Experience with Spinal im J Surg 113 2x 3 5 liy Surg Cyne & Ob t Angethed

A report f 234 cases of spinal anaesthes (stovaine) in the abdominal service of William port Hospital covers g 338 operations on pelvic organs, gall blad ler and ducts berma a recocele castration rectal operations, plenectomy intestinal operat o a carsarean section and amoutation of th gh in which the ages ranged from nine to eighty five years showed that in 210 of the cases the anysthesia was complete while in it e ther a second insection or a attle ether was required there being no objection whatever to eth r with storing In the incomplete cases explanations were sought the following be g the ght plausible foot f table being too elevated the suggests eness of odor from cauterning ma pulations of adhesions to gall bladder and disphragm rough bandling of fixed uterus &c Thirty four uffered from nausea and vomiting This tro blc almost always occurred a little consequence and litterly was ob rated somewhat by g ving the patient a light breakf at shortly before operation. The patrents were allowed t drink fluids during operation but no talking was allowed Aine case are pecifically mentioned as showing adva t ges in the method of these two snowing awa it was the included were of profound shock, ne had a exphibitainer go ter and th oth rs eithe kidney or heart diseases. There were three death ne after completion of operatio bef re leaving the room but it was not thought to be due to stovam as the condition had been bad (cæsa can section) one (splenectomy) after three days and one (thigh imputation for septicemis after two neeks. The author is positive that spinal anesthesis is a big saset to the surgeon even safer than cher Blood pressure falls (an advantage to harmostasss). He thinks time of operation is shortened by it and fails to understand the prejudice against it. F. W. Proceso.

Henderson Y A Comparison of the Immediate and After Effects of Spinal and Local Anal ges a with Those of Inhalational Anasthesia in Respect to Shock and Psychic Shock T

Int at Cong Med Lond, 19 3 Aug By Surg Conec & Obst

Shock may be caused by mental states e g fear or anxiety in much the same manner as it is caused by physical pain. In using local and spinal anal gesia it is important that the mind also should be protected unless the patient is of phlegmatic character or is ignorant of what is happening. In general anasthesia not only anxiety and the con sciousness of pain are to be avoided but also over stimulation of afferent nerves influencing the centers controlling vegetative functions particularly respiration. Quiet breathing is a supreme desideratum To attain it local analgesia should if necessary be used to reinforce general anæsthesia and tice In this practical point the writer agrees with Crile although he finds that much of the theorizing with which Crile has surrounded his teach ings lacks any demonstrated basis of fact

A form of shock may be induced by unskillful methods of anesthetization particularly with ether. This does not consist as Crile holds in fatigue of nerve centers. It is due in part to the acupna which results from excessive respiration and renders the pattent private to respiration and renders of the pattent private to results of the pattent private to reduce the fatigue of the pattent to cardiac fibrillation under chloroform and also to other disturbances of general functions.

Experiments by the writer have shown that unsalilful amesthetuation particularly frequent variations in depth of anisethesia may render even a perfectly heality subject hable to de suddenly under a dosage which would otherwise be borne with impurity. Rehresthing methods in mitrous onde oxygen anisethesia have demonstrated the advantage of preventing acquain and even of inducing operating room about contain five to eight per cent of carbon dounds as a summing to restriction.

Diwawin L. A Pantopon-Scopolaroine Anaes thesia and Its Combination with Local Anaesthesia (Zur Frage der Pa topon Scopolaroine V those od deren komb nation mit ritcher Ana hess) Chru gus 93 xxxx 34

Zentralbi d ges Chru u Crenzgeb

After an exhaustive study of the hierature of the subject the author reports 101 of his own cases of anasthesia with printopon scopolamine. They are divided into agroups (a) pantopon scopolamine with local anasthesia—19 cases 36 of them being

appendectomies (b) pure pantopon-scopolamine amesthesia—4 cases (c) pantopon scopolamine amesthesia with spinal angesthesia—9 cases, (d) pantopon-scopolamine in combination with chloroform and ether—13 cases

Dose of cos-cog gm pantopon ando coscoos scopolamine are enough for a omen and delicate men for robust men o or pantopon and o cook scopolamine. These doses must be exceeded only in exceptional cases. Injections of pantopon scopolamine are a valuable and inlocal anaethesia and extend its field greatly. It is dangerious to induce complete anaethesia with pantopon-scopolamine alone on account of its effect on the heart. SCALACK

Mitchell J F Local Ansesthesia J Am M Ars 19 3 km 842 By Surg Gynec & Obst.

The author presents a general review of the devel opneants in local ansesthesis since the publication of his previous paper on this subject in 1707. The need greatest factor has been the introduction of novocaine as a substitute for cocaine. Novocaine is now recognized as the best and safest substance for producing local ansesthesis as it is about seven must less tonce than cocaine and its solutions are understood to the contract of the contr

A description is given of Bier s method of injecting novocame into the ven of a limb between two tour injects applied after the limb has been rendered bloodless by the application of an Esmarch band age. Very good results from the use of this method are reported from Bier a chine, but Mitchell believes that the discomfort of the tourniquet is often a considerable disadvantage.

The anaesthetization of distal parts by permeural and endoneural impection which is rendered easy by a knowledge of sensory nerve distribution is next taken up Many authors are quoted who have used this method with success in such operations as amputations penneal prostatectomer vaginal hysterectomers, create as sections appendicectomers enpherectomers enchanced immerctomers, and operations on the gall bladder and storach. The head has been a special field of in storach. The head has been a special field of in ganglion has been detailed with the gassering ganglion has been detailed with a coursely. Resections of the jax and extensively accuracy. Resections of the jax and extensive the tougue have been performed by this method successfully and paquiesaly.

hovocame has greatly improved the local anasthesis of the neck and the use of it is surprisingly simple to one who has been accustomed to employ ing cocame as sparingly as possible

The now well known work of Crile on shock and an explain and his principle of anon association are considered of great value. His method of eliminating the traumatic factor should be used not only for handscapped patients, but also in daily routine

work It is of special value in the surgery of the filtrates the neck thoroughly with 05 per cent novocaine before he excises the growth By the time this is finished aniesthesis in the neck is so well established that the dissection can be done at will

In the treatment of fractures the author has found the combined method most useful In hernia cases he does not consider old age a contra codication

and he performs all operations for herms with local anaesthesia except in the cases of very young children In closing the author pleads for more experience and skill in the various methods as without these local anasthesis cannot be fairly judged

ALPRED H COPPRES

Lastotschkin J P : Hedonal Anzesthesia (Über Hedonalnarkose) Chiverge 1913 xxxiv : By Zentralbi I d ges Chir i Grenzich

Intravenous anæsthesia with hedonal, as proposed by Fedoroff has been used in over 1,000 cases Lastotschkin reports his 75 successful cases In 70 cases the veins were well defined in 5, they were not In 52 cases the patients were absolutely quiet during narcosis in the others they moved slightly but not enough to disturb the operation In 2 cases narcosis was not complete ether had to be given in one case and a few drops of chloroform in the other The cases were divided into three groups according to the amount of hedonal used. In 28 cases 1,000 cc or less was used in 37 cases 1 000-I 500 cc and IO cases I 500-1 800 cc Vomiting occurred in only 4 cases Twice there was bronchi tis to times pneumonia

o deaths resulted from the anasthesia but 12 of the patients died from various causes and after varying periods of time. Three died immediately after the operation The 15 cases are arranged by Lastotschkin in tabula form giving details of the course of the narcosis and he is very favorably impressed from his experience While the number of helpers required is at times inconvenient this point should not be a decisive factor against the method His conclusions are Hedonal amesthesia has the same advantages as the ordinary inhalation anasthesia with ether or chloroform but it also has some special points in its favor It permits of accu-rate dosage and avoids the possibility of sudden heart fallure, because it contains the stimulating amido group \loreover there is a greater difference between the anasthetic and toxic doses but it should be used only when there are special indications for it It is particularly valuable in peritonitis septic processes in long operations, and in heart affections SCHAAK

Godd P Regional Angesthesia in the Lower Jaw (Considerations sur lanesthésie régionale dans la machorie inférieure) Odonielogie 913 lix, 447 By Zentralbl f d ges Chir Grenzgeb.

Often as an ankylosis for example at as ampossible to use the method of producing amesthesia of the mandibular nerve by injections from the mouth. For this reason Gadd experimented with injections from the outside. He inserts the needle in the midline between the cross ng point of the arteria maxilans and th lower jaw ie the anterior border of the masseter and the submanilar, a gle and pushes it a little backwards holding the head of the patient inclined to the other side and keeping close to the bone. The distance from the mandibular foramen is 3 cm At this point and in the area surrounding it 2 per cent novocame solution is more injection in the neighborhood of the mental foramen is necessary Of of anesthesias or of which were for extractions So were tisfactory SCHURSTAGER

# SURGERY OF THE HEAD AND NECK

llet H Syphilis of the Sal vary Glands (Les syphili des glandes salivaires) Thèse d'doct Vuillet H By Journal de Chirurgi Par 03

Vuillet says a syphiloms of the parotid gland can somplate a tumor and the diagnosis can be made only with the aid of the Wassermann or a microscopic examination A serious and mutilating operation might be performed for such a tumor which would clear up rapidly under appropriate treatment. He reports a case of Letulies and one of Morestin's presented before the Société de Chirurgie last year and makes an anatomical a deli ical study of syphi he of the salivary glands

The salivary glands are most often affected in individuals between 20 and 40 years of ge 12 cases under 24 ) cars of age being reported in the tatistics

of Gerber The paroted gland is most often affected. being involved in 30 cases the submaniflary in 7 the sublingual in 6 and the gland of Blandin \uhn in 1 Case

Vuillet points ut that in hereditary vohilis there is engargement of the parotids contemporaneous with chancre In the se o dary stage there may be subacute parotit s which may be accompanied by lessons in the ubmaxillary and a blingual and possible suppuration

Tert ary syphilis may cause a bronic diffu e bi lateral parotitis a s multaneous avolvement f the sahvary and lachry mal syndromes of Mikuhez ra syphilor of the gland the only we will consid r

The s philom appears rom three to ele n years fite the beginning of the disease t first as small introgle dular nodule which may become as large as an ea, or an apple and may resemble a mixed

tumor There is induration no functional trouble and generally no facial paralysh. It either heal spontaneously or suppurstes giving meet to a salvary sixtual. Microscopically there is a chronic lustic parotitis characterized by the formation of diffuse guimans combined with a specific interestinal insular parotitis. The prognous is usually good. It is not the second of the prognous in the second parallel parotitis. The prognous is usually good. It is not interesting these glands and may even be used as a therapeutic test in diagnosing the condition when there is some question as to whether the inflammation is specific tuberculous actinomycolic or F. M. Capever.

Murphy J B Bony Ankylosis of the Jaw with Interposition of Fiaps from Temporal Fascia S & C a J B U Pby 9.3 N 4. By S rg Gyn c & Ob t

The patient aged 24 went to the hospital on account of imitted motion in just a list on a traction of imitted motion in just a list of the condition dated hade eighteen years when he was lacked by a horse on left ade of 1y in just posterior to the mental process. Sustained a compound fracture at this point. The wound supported and discharged just for about two months, when a sequestrum or a tooth came out. The wound then healed Immediately after accident patient also had a discharged from the night earl for some time. He never had any pain Condition has not grown any worse in the past twelve years. Two upper teeth inght canne and bicuspid were removed and he ate only soft foods.

Ankyloses of the yra may be divided into i Intra articular conditions fibrous ankylosis 2 hony anky losis 3 pernarticular conditions 4 muscular or cica tricial fixation The man had a metastatic infection in the right mand bular articulation and this extended into the ear. He had no extension of the infection throughout the entire length of the mandibular process as in mouth infections or occasionally in typhoid infections which may involve the whole jaw from the symphysis up into the mandibular articulation so the head of the bone becomes necrotic and is expelled. In those cases the whole jaw can be taken out as a sequestrum. After the injury on the left side of his jaw he had an infection on the right side extending from the mandibular articulation into the temporal bone which produced the ankylosis

These frections may be divided atto three classes in Those that pass through the internal ear and discharge behind the ear into the mastoid 2 lines that go through the posterior part of the pictous bone 3 those that burrow forward and crited into the articulation. The other conditions acted into the articulation of the other conditions about the mouth sloughing in typhoid and scrift fever points.

The articulation will exposed through a 2 inch incision beging a half inch in front of and on a line with the external meatus an I extending up into the hair. The joint was represented by a mass of

fibrous tissue and an elevation which felt like the head of the mandible There was no motion in the point and by taking the periosteum off the head it was found there was bony ankylosis running clear forward across to the coronoid process The demar cation between the mandible and zygoma was distinguishable After freeing the ankylosis fairly well it was divided with a straight narrow chisel and the head of the mandible removed This left a space of at least one half inch The real point of fivation was at the coronoid process which was united to the under surface of the zygoma so it held the latter firmly to the mandible \ext a fiap of the aponeuro sis and fat of the temporal fascia was raised about two inches in diameter basedown and dropped down under the zygoma and into the glenoid iossa so it was interposed between the bones making up the joint and preventing recurrence. The tip was fastened in with a few tacking sutures and the skin closed with horsehair and dusted with subjodide of bismuth and scaled with collodion gauze. The raw moved quite freely but there was some fibrous fixa tion of the opposite side to be overcome by stretch ıng later

The day after the operation the patient had free motion in the jaw. This increased rapidly. When the skin situres were removed on the tenth day he was able to open his mouth one inch. A week, later the fibrous firition of the left joint was on errome by pring open the mouth under anaesthess. The patient left the hospital on the twenty second day patient left the hospital on the twenty second day result was sted. There was then and a half. The result was sted. There was the hand a fail. The the face and no depression where the temporal day had been deflected downs and

Haynes I S Caterna S nus Drainage for Hydrocephalus A ch P dual 913 vxx 670 By S rg Gyner & Obst

The report i given of a case of hydrocephalus treated successfully by draining through the eisterna magna according to methods previously designed by Haynes The modified technique advised is as follows

An incisson was made one fourth of an inch at the left of the midline from a point about three fourths of an inch abo e the margin of the foramen magnitum to the same distance above the inion and the akin with the periodeum reflected to expose the occupital bone. A three eighths of an inch button of bone was removed by De Vilbuss trephine midway between the murgin of the foramen magnium and the inion and from this a guiter half an inch wide was cut away to the last point exposing the dura over the citeria magni and in the upper part of the area the lateral (left) sums.

A uture of vaseline-sterilized silk was passed through th dura and arachnoid so as to enclose a spar about one fourth of an inch square within which space the short arm of the cannula was to be passed. An incision 1 mm in length was then made into the lateral sinus. Blood flowed in a steady small stream rising about an inch in height Into the small opening the long arm of the cannula which had been previously sterilized in vaseline was inserted. The fit between the cannula and incision was so snug that no leakage of blood took place but there was a flow of blood from the free end of the tube In incision a little less than one inch distant from that just made in the inus was then made through the dura an i arachnoid into the cisterna magna in the center of the area encircled by the silk. suture The cerebrospinal fluid spurted out at once to a higher level than the blood from the sinus After a si gle quick ponging the short arm of the cannula was inserted into the inci ion and the wound sponged Th re was no leakage of either blood or The retention suture was then tied across the

tube I f w hours after the operation the temperature rose to 104 then it dropped. Two months after the operation the child was in excellent condition Havnes suggests that in the future the skin in cision a stead of being made in the median line be a semilunar incision made at one ide of the median

line and with it concavity towards the middle Cubbins, W. R. A Computation of the Method Used and the Results Obtained by Fellows of the Chicago Surg cal Society a Brain Surgery Surg Go or Ob 1 to 3 357
By Surg Gymec & Un-t

The answers to the question as to which is the hest method for hæmostasis indic ted that the maj nt) of the urgeons prefer a tourniquet but that others are just as strongly in f vor of elastic arten f rceps

Vost frequently the skull was opened with a t ephin followed with a De Villuss or wire saw The result from the removal of tumors were v ry unsatisf ctory Only superficial cysts ga e satis

factory choical results Brain abscesses were located with a grooted direc tor or a blunt trocar with multiple openings. In drawing an abscess the consussus of opinion was that it best t ha a lerge opening and cont nuc the train ge f r long time using ailtworm gut its or gl tubes W th the exception of those around the ma told region these abscusses recurred

very often Decompressio operations were recommended cases f tuberculom to following hasal sk ll fractures a d benign but maccessible tumors. It afforded

relati also in the mal goa t cases Decompressio and dra nage in acute lepto as of no alue th few times t was meningit

emplyed

Joksonian epilepsy du t so cyst d'aumor
was reli ed ly who perated upon before the was rin en in wan peraren und before in condition had 1 ted ery long Pares lo fi the op post ext m ty wa noted i llowing these opera-tions but t usually leared up. The operation r diopythic pilepsy were uni

formly unia orabh

Barány R: Clinical Development of My Symp tom Compl x (Die klimah f t aklung mener "Your tomenkomplexes) If so used If & sch 2085

By Zentralial I d ges Chi 1 Grenzach

Inflammatory adhesi ns can so close up the cisterna pontis at the cerebello pontine angle that a serious cystic meningitis occurs The neighboring nerve trunks are njured by pre-oure from the par ticularly the auditory and perhaps also the n rveendings of the auditory which are fund in the labyriath commun cat ng with the cisterns as well as the neighboring parts of the cerebral cortex. The cluncal picture generally begins suddenly with buzzing in the ears dizziness, disturbance of balance and vomiting Difficulty in hearing and head iche in the occupital region of the affected side follow There are two peculis characteristics When an att mpt is made to touch an object with the hand of the affected side it pas es by n the outer side of it and when ny stagmus is el cited toward the diseased ide there is no movement of the eye inward. A series of ch scal observations shows how Barany gradually came to display this emptom comple found its cause and how he localized the centers for the rm movements in the cortex of the cerebel lum Sometimes spontaneous rupture of the cyst brings about a cure otherwise I mbsr puncture must be done or the cyst pened surgically

PARTZULO

Marz fi ez fi S refery of Tumors of the Cerebello-P ntine Angle (7 Chrurpe der klemhunbrikk enwinkiltumoren) Mu s d G en geb d Wed

By Zentrall I d ges Ch Grenzech Mary describes in deta ) a ca e of tumor of the cerebello pontine angle that had been develops g for filteen months in a 48 year ld man Symp toms unsteadings of gait decrease in real ad auditor acu ty nystagmus a tendincy to fall tow rd the left but turil choked disc slight paresis of the right abduces Atlmm II operated through the I by rinth by I ause method but acc unt f the length f the ope tion and the se ere hamor th ge he could only curette o t some small fragm ts of th tumor for a while the pat ent improved m kedly but aft r fi e m the a cyst present the site f operation and was punctured. Aft r th ricen month he gre es much a ree present ung plac er e atrophy la L of right corneal refl e pralyse fth fual th right if d fees nd atax of the right rm ( sec nd ope ti n wa performed by Borchardt m thod tumor which the us fa mali apple wa moved in four pix es. He seemed t be gett g along well but died d lenly on the ighth d from paralysis of respiratio. The utopsy ho ed th t th tumor w a abrovarcoma that t as much and had been rem ed its en trety and th t th

right half of the cerebellus care c mp

partially destroye

Fühner II Pharmacological Investigations in Regard to the Acti e Lonstituents of the Hy pophysis (Phumik logsche Untersuch agen über de wirksimen Bests diesie der Hypophyse) Zischr

By Zentralbi f d ges C k u Ceburtsh s d Grenzgel

Hypophyan represents the collective influence of the hypophya upon the blood pressure the repuration and the uterus Hypophyan acts differently upon the respiration and blood pressure of ribbits and cats. Tests made upon the isolated wombs of several animals as well as experiments on the uterus is situ according to a new method advised by the author always give the same results.

Hypophy in is composed of four different sub stances which may be of tained in a crystalline state Clinically the first active principle obtained a not very active on the respiration and uterus but it influence on the blood pres ure is typical second constituent has a marked action on blood pressure the respiration and the uteru is qualitatively and quantitatively much more active than the second The fourth substance has the same marked action on the uterus as the third but influences the re-p ration an I blood pressure only slightly The constituent of the hypophysis that acts upon the uteru ther fore is not localized in any one part of the gland Besides the four products from which hypophysin is formed f ur other substances have been replated from dealbuminized extract of the hypophysi One of these is an acid The substances however lo not possess any action worth mentioning B TEN

lug r A Som Festures of Rontgenographic Changes in Pituitary D seases J im M I 1913 1 1752 By h og t no & 1926

The author confin himself to only its a pects of the r aig nograph. I tails of pitutany lecase lives the gen ril change in led tail de el pineut and secondly the ha ges in the skull and in the selfs turcea which he co il r of great importance in richium to the differential linguoss. I ad dition to the known change in the led it it off ga attom such a mandiular programh in enlargers in it of section with the control of the mention it hings, in the cervi o-dor all pine with his a lekent intelled ji rench auth re.

There are normally mattern in the use it has of the like II cone is a masurement of remmanater posterior and o mome cit. I distincted the normal limit in brach phalic person the sellar is not an if it is the result of the like it is an in the result of t

It has been not a that the use of the selloorrespal to the length of the posterno protect not the lass that hall and an undirect proportion to the lass that hall and an undirect proportion to the last the tappannils are thomodal pan be in the lappannils are thomodal pan be in the lappannils are thomodal last the last the phenoidal last are mill will from that love line a social n with a man to the national section with a Changes in other of the ductless glands cause at times an enlargement of the sella. This has been noted when the sexual glands have been removed or their functions di turbed and in certain cases of thyroid di case

Is the gland itself is rarely seen and this only when calcification his taken place conclusions are drawn only from the change in the bony parts. These changes consist of an enlargement of the sellof a thinning of the floor an let thinning and absorption of the dorsum and of the posterior clinoid

Processes
The order of appearance of these changes depends on whether the pituitary gland strell is involved—
the so-called intrasellar tumor—or whether there is some pathologic condition in the immediate neigh borhood of the glan! In intrasellar tumor there is first an enlargement in the site of the sella with increa ing thinning of its floor and of the dorsum sella follows: I later by all sorption of the po terior clinol is processed and dorsum sella.

In the other types of tumor the fest change noticed is the absorption of the clinoil processes and of the lorsum sellæ. The sellæ may be en larged later but it will not be deep, need an i rounded as in the ca e of intrasellar tumors. In late cases the fin lines would be the same.

In cases of brain tumors having no topographic relation to the pituitary glui I an I in cases of hydrocephalus chings are found in the sella sundar to those caused by ertra-sellar tumors. The diff ratial d agnoss in these cases can be made only from the clinical symptoms and other rontgen ray findings in the tall.

Att ntion i c lled to the enlargement of the pheno purital sinu due to pressure from the growth on the inus cavernosu as described by Schuller

I maily tumors of the acoustic nerve cause a har et ristiching in the dorum selle there being a ten lency in these cases for the dorum selle to inchine forward Ww \ 1 to

Peritz G Disea es of the Hypophysis (Hypophysic ritra kungen) if the frych the form

By Le trall I d ges Chi u i Grenzeci On the bases of our present knowledge of the fun ti n of th tw lobes of the hypophys I ritz liser es fith hypophysic i Diseases of the antefor labe. (1) hypotunction Iwarf in (b) h ner omegaly giganti m 2 Diseases of th pe t mor lobe (1) decreased function haponha I I no to (b) hyperfun tion diabetes incipidus ŧ M If rm (a comegaly and a liposity dwarfi m and hoo to) 4 D cases of the hyporhy is in uml in to n with I case of the other glan ! (1) genit I gla I and hypothysis cuntiched m (b) all gi n i Claude and Gougerot a plurighan jular i ser and Falta multiple sclerosis These diff rent I seal pr tures are discu sed in counce

tion with some interesting case hi tories which particularly illustrate the frequent I flicult es of diagno is Larticularly noteworthy is a very re markable case of obtity extending only from the hips lownward in two si ters of whom only one showed cerebral symptoms ocular disturbances and positive ro teen findings Contrars to I scher s opinion it may be a long time in acromegaly as well as in adiposity (5 years in one case) before injury to the genital gland appears To explain the pecul samples of the interaction between the function of the hypophysis an I the sexual glands h offers the following hypothesis There is a chemical antagomism between the anterior an I posterior lobes (gas metaboh m sugar) post ri r lobe an i sexual gian is contain a secretion which is mutually stimulating By atrophy of either one the other is injured so that a lack of habace arises between the two parts of the hypophysis. Cu hing a theory the thypophy stal obesity is the result of deficient oxilation of sugar is very attractive its hypophysisi origin cannot be determined from the localizati n of the fat Diagnost would pethaps be possible by means of investigation of metabol in (respir tory quotient sugar in the blood) More itention should be At a important at present paid to lymphocytos is the demonstrate n of swelling of the hyrophysis through aff ction of the optic nerve widening of the sella turcica etc. But tumor is not always th cause of diserve of the hypophysis as 1 sho n by the changes in the hypophysis in pregnan 3 a nell a the post mortem and ags in plurigh a balar diseases for this very r ason other lagnostic methods mu t be der sed. He thi ks peration i indicated only wh in there are severe ceret ral symp toms.

Schüll r A : Dystrophia Adiposo-g nitali (I) troj hia ad posegental ) II the d Neurel 9 3

y apez. \curul 24
Ry Zentralbi ( d ges Chie a t Grenzgeb

This nort, in a sect a f the new h n bood of neurology and gets of the leven twent to that diserve which is characterial by combination of local cerebral ympt ms with obsets and atrophy (the genitalia I its gen railty of the hypophy). If chief the repetition of the hypophy if cheef the repetition at the case gen railty a tumor f the hij physical construction of the control of the control of the control of the repetition of the control of the control of the open control of the physical case in the control of the control of the open control of the control o

G Idal her W. A. Turn r. f the Pineri Gl. nd (Lbe in 7 lekhtinengechwul t). I rebs. Arch f path inet etc. 0,3 cri 151 lly Zent alti f d. ges Lh. u. Crenegeb

Goldzieher describes e se i tumor of the pineal

a 16 year-old boy and there were meta tases in the lu gs liver and peribronchial lymph nodes. The microscopic picture of the tumor and the meta taxes was very sim far to that of the chorio-epitheloma described by take any In reality it was an angleplastic surroms as described by Malassez and M nod Of the 33 tumors of the pincal gland thus far collected by I appenheimer the majority were sarcomata with teratoms or glioma second. In Golden her's case there was abnorm I sexu I precocit hyperplasis of the interstitual cells of the testicle excess e spermatogenesis and unu ual development of secondary sexual characteristics as hapet trichosi The fact in connection with the early physiological atro; hy of the pincal gl nd suggests the theory propound d by Biedl an i Munzer that the internal secretion of the pineri glan I is antag on tic to that of the sexual glands so that the latter can only train full activity when the f rm t has undergone in lution. The f ction of the pineri gland would in that case la antagoni tic to the t of the hypophy is which I work the development of the se unl gland Gol lacher th nks that the defect in the function of the pine I gland acts d rectly as well a indirectly through the hypophy

### NECK

Bit m F and Getitzner R Studies on the Physi logy of th Thyroid Gi nds N thods of Iodin Determinati n in Organic Substances (Studen sur Ph bologe der Schildrige N thoden der Jollets urmune m rymeke S belgane) Zis f physi Chem 9 3 H 479 By Zentzhil d d ges Ch (proced

The authors are ttempt gt re vethe h mi try of sodire metabol m of th th mi l gl nd by n w method of n stigatio. Them thods in use at present f 10d ne determin ti rgan c subt ces are discussed II uth r con ider it inaccurate to reduce th ubst me t an a hafter mixing them with sodium nitrat espe I if if large quantities re d it with on count I the large number of other salt ont ned t th meature The s peroxide of bars m 1 recommended a the barst is been entl raily remo d Then f l low a criticism of the col rim to and lattern the determinations of iodin i number of well known but u sectial rrors re pointed out Aft r reduction t a sh th utbors d is com tidatio with put s um permanga te in acid solution a mpl to remot l f the per manganate with scon I remo at f the scohol acid I t g with phosphoic at I tit tin with this sulphat on Ih uthers also describe a m thod for gu nt tat ve det rms stio f res e and organic other; blood I gn which depend upon the complet perpt tion f the albuminou a bstances by mea Th Cetan value of the m thod is all strated by it g e mples hich leady dm matent to flerence and indicate the gross t be avoided

### SURGERY OF THE CHEST

### CHRST WALL AND BREAST

Murphy J B: Cylindric-Cell Carcinoma of the Breast Surg Cl J B Murphy 1913 u No 4 By Surg Gynec & Ob t

The patient under consideration aged 53 years sought advice on account of a hard mass in left breast an inch above and to outside of mpple and about the size of a pigeon se egg. She first noticed the mass in February 1913. It was then hard and of the vame use as it is now. She thinks she had a small mass the size of a pea in the breast three years ago but is not positive. She remembers impuring the breast quite severely two years ago. In December of the property of the prop

At operation April 20 a frozen section showed it to be a cylindric cell carcinoma and a radical opera tion was therefore done. The usual Halsted incision was made extending out on the shoulder and the axilla was cleaned out before removing the breast the anterior aponeurosis of pectorals and all fatty tissue being removed first. Then the p major was freed from its costal attachment and reflected out onto the arm splitting it well up to the clavicle. The fascia and fat between the pectorales were then re moved as a lymph node is commonly found here The p minor was then detached from t costal attachment and deflected out or removed entirely All the aponeuroses of both these muscles were re moved the edge of each muscle dissected free two fingers passed under muscles which were divided close to the ribs so as to leave muscle enough distally to fill in axilla 10 make an axillary muscle pad The chest portion of muscles was elevated entirely so as to expose fascial covering of ribs All lymph nodes and Is mph carrying structures were taken out before manipulating breast at all Thus by going down the chances of metastases from the breast getting into the general lymph circulation are less ened The axillary vessels were freed very carefully of fat care being taken not to wound the subscapular nerves The breast itself was then removed taking care to undermine the skin edges as far as possible a very important point

There is danger that the subsequent contraction of a scar might compress the a libray ven and cause cedema but this is prevented by leaving in the pectoral mu cle stimps to act as protecting prid for the aniliary vessels and nerves. The next step was to place the pectoral muscle stumps into the aniliar by a few catigut sutures they were wing in down and back into the availa and fastened to the edge of latissmus dons and cheet wall. Now all the aniliary vessels and nerves were fully protect.

ed She could away her arm u any position without interfering with the circulation. The wound was closed by puting in a considerable number of silk worm gut tenson sutures and horschair for the incl son taking care that there was no tenson on these flaps. A small rubber drainage-tube was put in, extending high up into the axillary space and fired to sake with a silk-worm gut suture. The drainage-tube was taken out at the end of 7.1 hours and the arm dressed by the side hand resting on the chest. The sodine is inst removed with alcohol and then the bamush subsorbed desisting provider is applied.

The drain was removed on the fourth day there having been little drainage. Stitches removed on the fitteenth day. Primary healing. The convalescence uneventful. Patient left five weeks after opera

Aron N M Local Ansesthesia in Breast Amputation (Lolaina these ber mamma amputation wegen Carcisom) Chr f 1913 xxx 54

By Zentrall I d ges Chr u i Grenzgeb

Local anesthesa in amputation of the breast was first used in Russia by Hintchel Knoss report of the case shows that the patient was a 70 year-old woman with my condities distation of the sorts and emphysema. Therefore local anesthesis was select of The anesthesis began with injection in the region of the brachial pletus them in the region of the intercostal nervier. All together 65ccm of a 0 g per cent solution of novocaine and 50 ccm of a 0 g per cent solution with the addition of 8 or q drops of adrenaline was used. The amputation of the breast and cleuming out of the smila proceeded amouthly and without pain. The patient recovered and was discharged at the end of ten days.

K ng II V and Viills, C. W Therapeutic Artificial Pneumothorax Am J II S 19 3 Lalvi 330 By S rg Gynec & Obst

These authors have confined the use of artificial pneumothorax to cases which have failed to im prove under the usual and more conservative measures

Some advocates of the method employ at in so called early and favorable cases but as most of these cases improve under the usual treatment it is difficult to say just how much of the improvement is due to thus part cular procedure consequently the method employed in the cases here reported is one of last resort.

After discussing the various indications for the treatment and conclusions reached by various authors the technique is described and the histones and slaigraphs of it cases are given. Two of the cases have shown marked and seemingly permanent improvement is at temporary or slight improvement and in one case hismorthages have apparently been controlled in one case of lung aboxes no

improvement followed the treatment and in ix on account of picural adhesions either no gas could be injected or not enough to produce sufficient collapse If A Ports

Th m a G F The Röntgen Diagnosi of Lesions in the Region of the Mediastinum Tr 1m P5 ig Rev Sec Bo ton Oct 1023 By Surg Gync, & Obst.

The \tay either radiographically or fluoroscopically off in a mean for the early dignous of leatons in the region of the mediastinum when pressure \text{times must be made to the matter than the mediastic owing to the inaccessibility of the mediastinum is the inaccessibility of the mediastinum.

A is real position of the med a tinium and list contents depen is upon a normal tension in both id s of the th rax and a normal equil b ium be tween the intrathoraccult ten ion and the lintra abdom and pr sture. For this revion plural adhe sions or efficions preumothorax tomors super fluous fat within the abdominal casut and ive ecroptosis all cause distortions of the sha low

I froud and motified me in tank shadow is mircait of tuberculous media it its large discrete hadows of Hodglan is dease a transcene postion of the beart resulting from lengthening of the aorta (without d lat tuon) of specific aortitis a junisating tumor of aneurys and a tumor reagwith deglution a substensil thyroid as opposed to above numerous validations from normal which are due either to lesions f its wall or pressure from without

without
The sem literal projection; of d tinet value for
the study of the anterior and posterior mediastinal
contents the bodies of the dorsal vertebra and the
enlarged thy mus-

In most case the uthne of the ac ta hould she distinctly ough through a uper mpo ed shadow to m ke it possible to differentiate bet cen

shadow to m ke it possible to differentiate bet een an eury mand a media tinal tumor I minha is was given to the d ctum that the method of procedure about the a correlation of the snammus and the phi scal and laboratory find ags

together with an ir ; e am hatton FRA CES C TEREST

### HEART AND VASCULAR SYSTEM

Scholz B Th Clinical Picture of Traum tic R ptu of the lieu t V I es (Das kh sche Bid de traumat schra Herzklappeneure wung) 'Itac' f is' her pseed L. pr 9 v 33 By Zentzalbi i d ges th Grenzgeb

Scholz describes the pict re of true rupture I the be rt 1 aft rea lu ion I the mpi me due themo rhage into the docard um more rduium or pencardium and gives typical case. 1 has been provide experim till h perte so a th sorta plays an import in part rupture of the heart all es cused by truim I the thorax

Valve injuries are by far more frequent in the left heart spontaneou ruptures from excessive high arterial pressure always affect the left heart. In injuries to the pulmonary and sortic valves there is either a perforation of the valve or it is torn off at its attachment. In the auriculo-ventricular valves there is hardly ever a complete separation but individual chicia tendinese or the bundles of papillary muscles are torn. The clinical picture of these tw forms of injury : the same In perforation there is simply insufficiency where the valve is come I tely or partially torn off there is insuff centry and ste ou tie double murmur being caused by the fluttering of th torn flaps a poir tenous i not observed in rupture. It can come only from traumatic en locarditis. The first objective ugn of ruptured beart valve are tachve rdia arrhythmia and a fall in blood pressure. After from a few hours to a few days a pathognome u ign f rupture appears a very loud grating, double murmur at first without enlargement of the heart inc the healthy muscle maintai a compensa-tion Graduall the picture becomes more like that of heart failure from endocard to. The subactive symptoms generally appear after a few days and consist of marked dysping a and poinful sensa tions in the region of the heart

Wrede L. Direct Massage of the Hea t (ber direkte Herzmarsag ) Irch f hi Ch to 3 ca 833 By Zentrall I f d ges Ch r u Grenegeb

The author att mpted to answer the question as to whether it i poss ble to bring about art ficial cir culat on by mean of direct massage of the heart. He injected a sol tion of carm num corrileum into the left external jugular vein of dogs that he had Lifled and then induced art first respirat on and applied direct mass go to the hart After a time he succeeded in finding the dye in the blood of the se ne as well as in that of the arteries From this fact he concluded that the dye must ha e passed through the capillars jstem. The die w a found also in the portal blood. Wheth r the passage through the capillar es occurred in the direction of the normal circulation o in the opposite direction could ot be proven absolutely Il wever as dur ing the massage the blood pressure was considerably h gher in the arteries than in the yeins, it seems at ast very probable that the circulation of the blood as in the normal direction

direnal preparations were found to increase the effect of the of rect massage of the heart con aderably Often i the expenients with immals massage, of the heart of artificial responsition failed and the heart of artificial responsition failed and the heart imported int. the blood of nucl. The effect of the p anephin, howe or disappeared quickly. To bian more lasting results according it. Areaton me a solution i aderand preparation must be allowed to flow in continuously. The author did hood prevenue by this method. He believes how. ever that the preparation should be injected repeatedly in order to obtain at least a repeated in

Of great importance for the results of d rect massage of the heart is good artificial respiration Even after the beginning of spontaneous breathing it must not be interrupted too soon. In his experi ments with animals the author noted on the reawakening of the respiration centers that, in spite of continued artificial breathing and independent of it there was first a period of dyspna ic breathing. This he believes was to rid the respiration centers of the excess of abnormal metabolism products for only when that had been accomplished did the reaction to the re pyration stimulus become normal. In the case of man, the author believes it is very important that the artificial respiration should not be inter rupted until the resp ration centers have become completely quieted

Numeron Tultures of direct massage of the heart wheel attributes to faulty artificial resp ration. The result of massage of the heart is dependent not upon the vitality of the heart which is great but upon the vitality of the cerebrum which expires within ten to fifteen municies after the circulation has been interrupted. The heart muscle itself may be severely injured by the massage but Wrede believes that which implies on the such implies the second of the product of the such in the product of the such in the such that we have a such as the such that we have a such as the s

PHARYNX AND ŒSOPHAGUS

Il lispaugh W P Some Interesting Œsophageal
Cases Lan pozope 9 1 xxu 938

B) Sur Lines & Obst

Mill paugh gives an interesting list of foreign bodies which ha e been removed from the ecsophagus under his supervation. The first instance is that of an insane woman swall wing a nine nch knife which we finally removed by gastrostomy In hi secon I case while no foreign body was found in the resophagus the experience show the dang r of using too mu h cocaine in the performan e of pass ng the tube Tooth plat s nd parts of tooth plat among th f re gn bod es most frequently swallowed while coins are common articles which hildren are prone to use for obstructing the ersophagus patient im gined that her tooth plate wh h she nallowed at in years before was still in the throat In I ray cleared the diagnosis but the wom n till believed h teeth were in her croophagus

Fragm at so bone caught in the excophagus are a frequent cure of worr, and trouble. Util 1 sught relates at 7; (sees gets, of a girl about 2 3; year old who had produced a long inctur. in her ecophagus to an lowing pure natine and "free many attempt at dalast go to a compa by the boncheous pews had resulted in the no other 'tipeo he endeavored to introduce the boncheous pews had resulted in the man opening through the pare relium through which the three surgeons was the pulsating heart II B Bao.

Meyer W (Esophagoplasty 4s S rg Phila 1913 lvin 289 By Surg Gynec & Obst

From the experience of three cases of assorbageal stricture in which plastic operations have been done the author discusses the technique and possibilities of esophagoplasty by the Jianu Roepke method in which the lower end of an extrathoracic orsoph agus is constructed from the partially exclsed greater curvature of the stomach. In no case was the plastic tube long enough to connect with an oral stump but the author believes the gap can be suc cessfully bridged by a plastic operation on the skin or by the use of a tube. From experiments on animals he suggests the possibility in some cases of using the Jianu tube intrathoracically anastomos-ing it directly to the esophageal stump proximal to the stricture. In the use of the Jianu tube extra thoracically it is perhaps better to transplant the tube subcutaneously than subpectorally

The author believes that the reconstruction of an exophygus is to be thought of not only in cases of beings structure and operable malignant tumors but in the inoperable malignant structures as well for in such cases the restoration of the power of swallowing would remove the patient's greatest hardship. Rasky Brooks

Denk W: The Radical Operation for Carcinoma of the Œsophagus (7ur Rad laloperation des Œsophagusc remons) Z tr lbi f Chr q13 zl 1c65 By Zentralbi f d get Ch u i Grengeb

In experiments with cadavers and animals. Denkhas marked out a method of radical operation for oesophageal carcinoma by which the thorax is not opened With moderate differential pressure or Auer Meltzer insuffiction a 20 ccm inci ion is made parallel to the left costal arch. The peritoneum over the cardia is freed bluntly the agus branches being avoided and the a sophagus is mobilized in the hiatus and mediastinum up to the b furcation a special instrument being used. If the curcingma cannot be freed gastrostomy is performed. Mer the low r asophageal segment is freed the neck is opened f llowed by mobil zation. With himanual preparation the fingers reach several centimeters from the abdom n and neck toward the opposite covering If the carcinoma hes above the bifurea tion the operation i begun at the nick. After mobilizing the cesophagu at is severed close to the cardit after crushing and applying metal clamps, one lam; ca dially The resophagu with the c remoma is pulled through the neck wound and divided also e the c remoma The stump is placed subcutan ously antethoracically the cut surface of the ex-ophagu being sewed into the skin. The cards a closed the opening in the diaphragm utured and gastro tomy performed. The latter might be done two or three weeks earlier through the right rectus muscle After healing an exoph agu a tula i connected with gastrostomy tube Lat r antethoracoplast; is performed The ad vantages of this method are avoidance of the

improvement followed the treatment and in ax on account of pleural adhesions, either no gas could be impected or not enough to produce sufficient collapse

Thom a, G F The Rontgen Diagnosis of Lesions in the Region of the Mediastinum Tr. Am Ronig Ray See Boston, Oct 1913

By Surg Gynec, & Obst

The \ray either radiographically or fluorescopically offers a mean for the early diagnosis of lesions in the region of the mediant num when pressure symptoms are the patient sonly complaint and physical examination is negative owing to the inaccessibility of the mediantime.

A normal position of the mechasinum and its contents depends upon a normal tension in both sides of the thorax and a normal equilibrium between the intrathoracical tension and the intra abdominal pressure. For this re-on plural side-most or effusions preumotherax, tumors super fluous fat within the abdominal cavity and vis ecroptous all cause distortions of the shadow

A broad and motified mediastinal vhadow is micrative of tuberculous mediastinuts large discrete shadows, of Hodgkin s disease a fransverse poutson of the heart resulting from lengthening of the aortia (without dilitation) of specific sortilis a pulsating tumor of aneurys and a tumor range with degitation a substernal thyroid as opposed to aneurys in The is muth vasalized esophagus shows numerous variations from normal which are due either to become of its wall or persuare from

The semilateral projection s of d t not valu for the study of the anterior and posterior mediastinal contents the bodies of the dorsal's stebra and the enlarged thymus

In most cases the outline of the aort should show distinctly enough through a s perimposed shadow to make it possible to differentiate between an aneuryam and a med asti al tumor

Limphasis wa gi n to the dict m that the method of procedure should be a correlation of the snamnesis and the physical and isborator; findings together with an ray examination

Francis C Traissy

### HEART AND VASCULAR SYSTEM

Scholz B Th Clinical Precure of Traumati Ruptus e of the Heart Valves (Dra khn sche Bild der traumatischen Herzläupenserenssurs) Zi f f I neher g med Le pz 0 k 33 By Lentzhil I d ger. Chn Grenzgeb

Schola describes the pr ture of true rupt red of the heart altees after husson of the ymptoms due themorthage not the endocardium myocardium r pencard um of grees a typacial see As has been proved experim atally h pet soon in the orta plays an import t part in rupt re the heart vall es c used by traum of the thora

Valve injuries are by far more frequent in the left heart Spontaneous ruptures from excessi e high arterial pressure always affect the left heart. In injuries to the pulmonary and aortic valves there is either a perforation of the val e or it s torn off at its attachment. In the auriculo ventricular val es there is hardly ever a complete separation but individual chordse tendinese or the bundles of pap llary muscles are torn. The clinical picture of these two forms of injury is the same. In pe fors tion there is simply a sufficiency, where the value is compl tely or partially torn off there is insuffi ciency and stenosis the double murmur being caused by the fl ttering of the torn flaps A pure tenosis is not beersed in ruptur It can come only from traumatic endocarditis. The first objective signs of ruptured heart val e are tachy cardia arrhythmia and a fall in blood pressure. Alt r from a f a hours to a few days a pathognomome sign of rupture appears a very loud grating double murmur at first without enlargement of the heart since the healthy muscle ma tains compensa tion Gradually the picture becomes more like that of heart f dure from endocard tis. The subjustive sympt ms generally appear after a few days and consist of marked dyspoora and painful sensations in the region of the heart

Wrede L. D tect Massage of the Heart (Uber drekt Herzm sage) Arch f hi Ch 9 3 ci 811 By Ze trulbi f d res Chr u 1 Grenzeb

The author attempted to answer the question as to whether it is possible to bring about artificial cir culation by means of direct massage of the heart, He injected a solution of carminum correleum into the left external jugular vein f dogs that he had killed and then induced artificial respiratio and applied direct massag to the heart. After a time he succeeded in finding the dye in the blood of the seens as well as in that of the arteries From this fact he co cl ded that the dye must have passed through the capillary system. The dye was found also in the portal blood Whether the passage through the capillaries occurred in the direction of the normal circulation or in the opposite direction could not be proven absol tely However as dur ing the massage the blood pressure was considerably higher in the atteries than in the veins it seem least very probable that the circulation of the blood was in the normal direct in

Advent preparations were f and to increase the effect of the direct massage of the heart considerably. Often in the experiments with animals massage of the heart and amifical responsation failed and the been impected into the blood channel. The effect of the paranephra however disappeared quickly. To brain more listing re ults. coording to Aretsch mer a solution of adrenal preparation must be allowed to flow in control using The author do blood pressure by this method. He beheves how To sum up the advantages of the oblique and transverse incision more accurately it will be necessary to await the results of a greater number of ca es

Weishnupt E. A Case of Extraperitorical Ade norma and Two Cases of Intraperitorical My orma and Two Cases of Intraperitorical My Repard to the Origin of inclusions of the Epithelium (im Isali on viraperitorical in the Compone and et il io on intraperitoric len'ly men des Lucament in rotundum in i innerita gen ber de: lient. It der epitheliane Emskillew)

ber die Heil, it der ep thehalen Einschlüsse)
Hrich f G, alt 10 3 401
By Zentralbi i d ges C)nik Leburtsh s d Grenzgeb
Cases am describe i with details of the histological

Cases are describe I with details of the histological findings. Tumors of this land originate from the epithelium of the pentoneum and the processur arganals pertones. I fertal origin is to be thought of only in a very few cases where there is a mor phological conformity with rend glomerul In flammation must be considered the di posing factor in all cases.

Gotjes III: Surgical Treatment of Ascites (2 ch rungschen Behnudlung des Asrites) 5 rhondi d Gestlisch des sehe \all forsch 1rst 19 3 prit 2 152 By Zentralbl f des Ch Grenzeb

Gotjee determined by animal experimentation that stasis in the region of the collateral b anches of the portal vein is easily compensated while tasis in the region of the superior meanence can the chief source of supply for the portal ean is ir reparable and can only be borne when an artificial way is provided for collateral circulation in this region. Therefore he proposes as a mod fication of Talma's operation to split the left fold of the mesentery, and dissect it back for about a hand breadth to make a peritoneal wound of about the same extent over the seat of the left kindey and to fasten the edges of these peritoneal wounds together throughout their entire extent thus creating the possibility of a colluteral circulation between the superior mesenteric and left renal veins

BLEETYGER

S ck C and Fraenkel E. The So called Bilinry Peritonitis (F B trag zur 20g galigen Periton tis) Beitr z ki Ch 913 kr 687 B) Zentralbi f d ges Chi Grenzgeb

The authors report a case of so called bilany perinousits Aft operation a munute numerate per foration of a healthy gall bladder was found Senal excloses were made and are reported on the original article on the basis of this and the original article on the basis of this and the conduction must have existed in most of the cases reported up to the present time as bilary perinousit without perforation of the gall bladder the perforations in these cases must have been so small as to escape notice. Senal sections are really precessary to decade whether the gall bladder wall

has been completely or partially punctured. Even

careful macroscopic examinations of a su pected area are not sufficient to decide whether actual perforation has occurred. Pentionitis certainly did not arise from contact with stenie bile. Cholecystectomy is recommended as the best treatment of the conditions.

Weber F: Injury with a Pointed Instrument with Comments on Prophylatis and Treat ment of Pertionitis (Em Isil) on Tishingswencetung im Anschi wdarna empes diber Prophylate u d Therppe der Pentonitis) Muschen med il chesch

9 3 le 772 By Zentralbi I d ges C'ynäk u Geburtsh s d. Grenzgeb

A 21 year old gurl fell in the hay field on the prope of a rake which she said penetrated 30-40 cm into the vagina. In the left vaginal vault a jagged tear into the parametrium admitted two finger In iodoform gauze strip was placed in the wound and the vigina loosely tamponed After twelve hours marked symptoms of peritonitis developed and laparotomy was performed. In the abdominal cavity a large quantity of fluid and coag ulated blood was found Below the left ovary a tear in the peritoneum 5 cm long passed through the parametrium into the vagina no other injury being noted. The patient was placed in an extreme Trendelenburg position and the abdominal cavity washed out with 25 liters of salt solution the pentoneal tear sewed up the parametrum left open toward the vigina 30 ccm of 10 per cent cam phorated oil placed in the abdominal cavity and the abdomen losed Recovery was uneventful

The author cites 200 cases where excellent results were obtained by abundant irrigation with salt solution when the peritoneum had been solied by ruptured pyosalpinax or ovariant tumors or tubul abortions the treatment being much less severe than dry sponging. The application of sterile campborated oil increases the favorable effect. Even when peritonists ha altracky developed irrigation with salt solution and application of camphorated oil ge c.v.cellent re ults. Hazago

Despard D L Subdiaphragmatic Abscess A s

Surg Phil 1913 1 u 334

By Surg Gynec & Obst

Obst

Despard reviews the anatomical relations of the viscera in the subdisphragm and points out the boundaries and localities in which pus may accu mulate and form subdisphragmatic abscesses

These abscesses are usually secondary to some leaves as a perforating gastine or duodenal ulear or next in order of frequency by infections spreading by continuity or continuity from the appendix gall bladder liver pelvic organs thorax or solven

He reports four cases and suggests a method making use of an extra and an intrapertioneal in cission by which many of these abscesses may be opened and drained without draining through either the pleural or the peritoneal cavities



ity of this area. The average index in 3 cases was 78 or normal and therefore showed that little or no value was to be placed on these data as a guide to

no value was to be placed on these data as a p

In the 83 children of as enge des elopment examined the average position of the stomach was much lower than i usually considered normal. The ideal cowshorn stomach is rare. In most of these cases shomach was of the horizontal or sind drain type and was often dilated. However the writer being the site with the site of the stomach was often dilated. However the writer being the site with the site of t

Sherren J Diagnosis and Surgical Treatment of Gastric and Duodenal Ulcers Report of 389 Operat ve Cases (Diagnose nd chrung sche Behandlung der Magen und Duodensligschruns \ bst mem Bericht über 369 operativ beh nücht Falle) Bri ki li kink 1051 85

B Zentralbl f d ges G, al u Geburtsh s d Grenzgeb

The author reports 56 operative cases of ulcer 170 of them gastric and 190 doudenal. The chrome gastric and doudenal ulcer is more frequent in men than in women the perforating doudenal ulcer in contrast to the perforating gastric ulcer is also more frequent in men. The author does not agree with Wilkie in hi assertion that inflammations of the appendix has easy connection with the teiology of chronic ulcers or inflammatory conditions of the incorrect region (coprostast) with doudenal ulcers. When it pical symptoms are present the diagnosis when the property of the contrast of the co

In the differential diagnosis between gall stones and duodenal ulcer or between appendiction and gastne ulcer the hyperacidity speaks for ulcer while in differentiating chronic g stars from duo denal ulcer high acadity po nts to the latte. The author found no construct difference in the rasults of test breakla to in cases of ulcer near the ply run of the removed from it near the lover curvature. Nry, exposures after hamsth meals in case with the latter than the continuation of the removal of the removal time title latter than the removal of the removal of

Increased peristribis of the pyloric end of the tomach 1 obee ed not in gastric conditions alone but also in case of gall ston and chronic appendix is in all c see which were clinically doubtful the

Tray w of no alue

In 5 one ut cases of hour gla 5 tom ch the diagnos w made in 4 and wrongly m d in one case [gull 1 nes and one of chronic appendicuts win git the 300 cases 58 were perforate [50 duo denvia d 8 gu tinc). I contrast to the diudenia in the griting group the acute ulcer usually per forated w 1 in the majority of case it utiled at the ant r t mch wall a d w more frequent in

women than men The perforation rarely occurred without prodromal symptoms

The surgical treatment of chronic gastric ulcer consists at the present time in all cases of gastrojejunostomy with at the same time inversion or excision of the ulcer without pylorus exclusion Surgical treatment which was only used as a last resort after failure of thorough internal treatment or relapse showed 80 per cent complete cures and was connected with very slight risk to the patient The author believes that the chronic gastric ulcer situated at the pylorus or in the fundus will heal after gastrojejunostomy provided that it is not adherent to the pancreas or posterior surface of the liver in the latter cases excision is preferable. In 28 cases in which the posterior no loop gastro enterostomy (the operation of choice) was made impossible by adhesions the gastrojejunostomy anterior retrocolica gave the same satisfactory results Of 151 cases the treatment in 4 was excision without a death in 17 excision and gastrojejupostomy with I death in 2 gastrectomy with I death and in 100 gastrojejunostomy with 2 deaths In none of the latter cases was malignant degeneration observed. In 10 cases of hour-glass stomach the treatment in 10 cases was gastro jejunostomy posterior with no death in 5 cases gastrojejuno tomy anterior with I death in 2 cases double gastrojejunostomy with no death in 2 modified Roux operation with no death results in all cases were satisfactory

Before the operations on the stomach the author gives his patients nothing but stenlized food for 4 hours. After the operation the patient may drink water at will and in case comiting occurs food is withheld and the stomach washed out the control of the control

I he surgical treatment of chronic duodenal ulcers in which all medical therapy had been useless con sisted in inverting the ulcer and making a posterior garrierjeunostomy without pylonic orcidision Of 1501 cases only 2 terminated fatally

The treatment of the perforating gastric and disdenal ulers consisted in closure of the perforation through mersion or e cision in disodenal ulers gastriogiumostomy was necessary at the same time in acute gastric ulers it is not only unnecessary but unwave if the normal function is not disturbed through stenosis in chronic perforating gastric uler the same treatment was used as in non per long the free duid was sponged off no ir longing the free duid was sponged off no ir longing the free duid was sponged off no ir longing the stenosis was used as in all through closed and only in a few cases was pelvice of tumbar dramage inserted

Of 3 perforating gastric ulcers 16 healed 10 in the first 24 hours the unhealed cases again being operated upon later. In contrast to harmatenesss of young women which in 75 cases was the first 3 ymptom the author advises the following treatment in Davies, T F : A Method of Operating f r R dical Cure of Inguinal Hernia R M J 10 5 ls.

The author makes his skin incisio just i ternal to an labore the pune of the pula and runs it up we ris parall it the fibers of the aponeurosis of the external oblique from which the skin and subautaneou thate it raised. The pillars of the ring ha ing been clearly defin! the aternal of liq e i at lit up far enough to give sull co t room cord an I structures covering the sac are seen ! g in the r places and mut not be t uched. The to er marem of the internal oblique is retracted upwards The perstoneum (not the sac) is then spened from the int real ring upw rds. In almost all of the aver operated upon the a ternal ring i very much approx mated t the external by the dragging of the hermitted gut so that the reto m be ever themer ton fth pertinseum m ; be carned c's n on the outer s I of the ring Whe the abdomin I cavity is pened the neck of the sa can be seen from the ins le If omentum or oth r s rictures are adher at they may a dy be separated or drawn o t f the sac The i er nd of the incision through the peritoneum is then carried lown to the reck of the sac and around it so that the ab domin | persioneum ; ent r l seps ated from the ear just a the h nd of a gl ve would be separated from a finger if the I tter wer cut off at its junction with the palm. The abd minal perit neum i next with the fall of the continuous after a in a yother abd min 1 operation. The sace is dissected out Fridently the corl is not trap in field. The internal obday the drawn lown to the shifting rige of Pountit s ligament and th external the u fly metipped The perit n i part cularly applica men ng m th sac M 5 11 pr v

resm n li Th Radical Operati n for Ing in lift rni (De Radic lyera son let ingu ult rme) i k adi d tot il k d i k \ i f Dreesm n

A Do 7 t 11 f d ges Chi (n. agel

Mithough the inference bet e n the percentag of r currences of ingu al her in afte th Bassi i or currences or ingu at ner to acre to 1935; 1 method (e 24 per ce in 493 c 43) and the perce tage free rences after th exturpation of the hermal are alone (e 28 per cent in 290 case) are very sight the uthor advises benden the currences. nated I the herm I sac als the careful clos ag of

the bermal canal Lik Hakenbruch Dreesman forms the post rior wall of th ingui I canal not only out of muscula tu e 23 is done n ti Bassin method but also from fascua He resects the poneurous of the bl quus externus not directly above the inguinal cun I but

furth rabove and in a d rection par il it th m d line After frees g the lateral portion of the b lau stendon up to Foupart s bgament and carefully dressing the hermal sac he autures the medial border

of the fascia of the obliquus externus and the musculature of the oblique internus and transversus muscles to the surroun i ng parts of Poupart a l ga ment by two mattress utures O er this he sutures the lateral portion of the fascia of the bliques externus. The spermatic cord above her as far as possible in a vertical position breetly benea h the skin The kin wound is drained to present the hamorrhage that i alway likely to occur with local anasthesix. This method has been used for two years on more than ne hundred cases and so far no recurr nees have been n ted

### GASTRO-INTESTINAL TRACT

Th Position of th Stomach in Children in R I tion to Postur 1111 ù 55 10 1 lly Surg f mec & OF L

This paper an one nal investigation of the local t noith tonach; relation t th po ture of the b is The data were blamed from an \ray

xamination aft r a bismuth meal and a ph sical examination f ver So that leen With regard t posture the c ses are classified as

f flows ( ) Good r w alled norm I posture (2) Forwar I shoulder normald real curse increased I r and abdomen protube ant. This type I commonly c fled the torward hould re round holl w back type (3) Cases sho ing firward should re an incre sed backward slope I the norm I lorsal curse but a normal l mbar ; n and a flat abdo-men (4) Cases in which th ; red m n lang feature the fit by L that is a fatten og of the norm ! thy ological interope term curves of the pin

ant wight above the norm ! In o the lower t rier f th t mach wa well bet w the that crests In one t w in the il c crests ad in th th r t th lower bord r f the fourth lumbar ert bra Most of these t m h w red lated and

f the inker the

1 Cles there we as ses with f rward hould ran hill with h pret berant al lo f th st mach was mens. In 6th lu I meler nust boy the ila rest 1405 IL W rust t the k lofth crease d it wa well below them Mn f these at m h seemed large and dil ted and none wr of the norm I ow horn

r cr then was 4c & In o of them the lower bord I the tymach was I lim the il ac rest in ne tib I I fthe crest and 4 at the fourth lumb nt la

I Cl sathrence ases In 8 of these the t m h were bel the il cr ts, jat the level of th rest nd n one at th fourth lumbar s riebrs

ber to use the in lev of Beache and Len h if was tudic i t upposed to go an idea of the capa ty of th upper belomen indices over So suppose il) show rel t incapacity of the ppe abil m n an I those belo 80 a mal spac

Stover G H Rontgenology in Fatimating the Operability of Carcinoma Gastrica Describ Time : 1913 2221 85 By S og Cypec & Olst

Store reports five cases with seven illustrations life follows the technique of Hollaukneth; and Illandek, and talkes a series of tontgenograms as he claims that numerous plates must be made to produce a full record. Certain churacteristics must be followed through a series of plates of a digestic excle as some things seen upon a single plate lose their guidicance according to whether they are present or absent during the further course of the examination. A wall of similarity with the datas of this branch of anatomo physiology 1 necessary to read originograms correctly, as it I charlatianism to pretend that a stomach pecual t can make a diagnoss from a ingle plate produced by a rout

genographer The author believes that gastric rontgenology will revolutionize the field of gastro-enterology Instead of a multiplicity of disea e entities based on sub sective and objective symptoms their number will be greatly reduced because several groups of them will be recognized as being simply ariations of a few definite pathological conditions simplify the classification and lead to greater efficiency of treatment Surgical interf rence will be resorted to much oftener and earlier and as a result months or years of suff-ring from curable diges tive disord r will be avoid d and the lives of many patients suffering from major an i malignant dis eases of the tomach will be saved the few ruse less operat ons will be performed J H C BURLE

Chastenet d Guéry V Autoplasty of the Stomach by Transpl nation of an intest nat Loop (L procéd. d utop) the tomach? It pla tation d ne segré!) G méd d Le 9 3 xx 54 By Journ 1d Chrug:

To re-stable h the continuity of the dgest e tube after extressive gastrectorm the author proposes to unite the exceptingeal end of the stomach to the duodenum by sunga expenser of the prjunum as a graft. This method he tirred once o by on a dog the operation in performed in two stages (1). The operation is performed in two stages (2) as an arrange of the performed of the stages (3) as the stage of the st

i The graft is detached and the contin ity in the duodenum is re-established. The expirant to be transplanted as taken from the first meter of the jejunum where the mesentery is of some length and the arrangement of the verse! is such that the mensentery can be isolated sufficiently well we thout damaging its viability. The continuity of the jejunum is re-est bil held by means of a button and the break in the mesentery is carefully sutured.

2 The grait is put in place as follows. The segment i jepunum with its mesentery is passed through a non vascular pace in the mesocolon large enough so that the autrative pedicle is not compressed. The anastomous of the upper end

with the esophagus is performed by either Bill roths or Kocher's method the anastomosis of the lower end with the duodenum by circular enteror rhaphy or by means of a button

It must be admitted that the operation is long and complicated. However it is no more complicated than many other visceral operations and by the use of the button in the two places mentioned above at may be shortened considerably.

may be shortened considerably
The author believes that this operation is indicated in a considerable number of cases of gastric or
gastro-duodenal resection for ulcer or cancer par
ticularly when as the result of adhesions or any other
cause it is impossible to bring the exophageal end of

the storner into close approximation with the end of the duodenum J Dr. 2007

Cole L G: Physiology of the Pylorus Piteus Ventriculi and Duodenum as Observed Röntgenographically J in V Au 0; in 6; B 5 g 0, ce & Upst

Cole lectures that embry ologically, anatomically and physiologically the first portion of the duode num: associated with the stomach and; in real sty a part of the stomach not a part of the samily and the stomach not a part of the samily notion of the duodenum coming from the primitive foreign differs materially from the second and that of the state of the duodenum are and like the chyme in the stomach of the duodenum are and like the chyme in the stomach state.

The author further claims that like the heart action gastric action takes piece in cycles marked by a systole and disastole or an alternating con traction and relaxation of all of the peristaltic waves. The time occupied by the formation and duration of each terminal wave forms a prastic cycle.

The term pieus entireuli or cap of the stomach Cole applies to the first portion of the duodenum which he concludes must be considered as a continuation of the stomach stell Since minety five per cent of the ulcers which occur beyond the pylorius are found in the first inch and a half of the intestine viz the cap they should be described as poort pyloric rather than doudenal ulcers.

The pileus ventriculi is separated from the pars pilonically a space varying from one-eighth to one quarter of an inch indicating the pilonic sphinicter. The amount of contraction of the pilonic sphinicter varies in proportion to the activity of the gastric peristal is 1 e when the gastric peristals is feeble the contraction of the sphinicter is weak and when the gastric peristalss is strong the sphinicter i more tightly contracted.

The function of the cap is that of a reservoir receiving the and chymic propelled through the plot is during the systole of each gastite cycle. During the early stage of digestion the chymic i rapidly withdrawn from the reservoir cap by a rather broad periodic pentalitic contraction probably caused by the alternating allaline and acid reactions in this pottion of the intestine. As

bleeding from chronic duodenal and gastric ulcers When the bleeding has stopped and the condition of the patient makes it possible (usually after 36 to 48 hours) or when the hamorrhage continues or recurs direct treatment of the bleeding point should be attempted beca se for bleeding from a larger vestel gastroglumostomy is insufficient

In bleeding gastine 'ulcers the author advises highton of the apparent vessel and excision of the ulcer with opening of the stomach if necessary followed by gastrojupmostomy in bleeding dudenal ulcer he advises the inversion of the ulcer and ligation of the gastrojudomain artery and finally the opening of the intestine with gastrojumostomy with this treatment the author has had excellent

results.

The so called paralytic omiting which follows gastropiunostomy easily yields to gastric lavage in 4 cases a second operation was made necessary by persistent regurgitant vomint gastropium darrhean net occurred. In 5 cases of gastro-jejunostomy postenor without loop (4 duodenal a d. gastric) a second operation was necessary on account of a jejunal abscess nituated on the antenor surface of the distal portion of the jejunum

Excision of the ulcer excision of the anastomosis, and a modified Rou operation brought about healing BLEENGER

Hall J N: The Compileations ? Peptic Ulcer Med Rec 913 lexxiv 566

This study of the complications of ulcer is based upon the cases in the private practice of the author burning to the the property of the author burning to be a made 186 times by the author that disable the properties of gastrone and the properties of desident ulcer 78 a total of 166. The proportion of deoderal ulcers would be greate under the present methods of classification since all ulcers involving the pylorus have been placed under the gastro ulcers.

"Among the complication the author considers for those aroung from mechanical distribunces Dilatation of the tomach is a ery common result either from pyloropsam cartincal narrowing of the pylorus or a combination of both Stenous of the canada of the duode um not uncommon and sometimes of the duode um not uncommon and sometimes the duodenum has caliber about the size of the little finger. Such narrowing may come either from a care in the art of an alcer of the size of the care of the c

Perforation is e of the gravest complications of ulce Perforation into the gene al peritoreal carity is rapidly followed by severe symptoms Perforation into the lesser sac is not uncommon and is more difficult of recogn tion, and perforation into the bowel is occasionally found

Extension f the infection may cause subphreme

abscess empyema or even a septicamia or pyama Hamorrhage from the site of the ulcer is usually not severe but marked anamia from repeated losses of blood is not uncommon Vescular changes are not uncommon and an ordema of the extremities

may develop with no carduc or hidney changes Epigastric hermis as a frequent conceident of peptic ulcer and parotits is common and it is of peptic ulcer and parotits is common and it is not accurred in the expension of the subpraise of the suthor Appendicties is a rather frequent forerunner of ulcer Cancer is one of the most serious complications grant and duodenal ulcer Surfay say per cent of the period of the control of the period of the control of t

Wise W D Acut Perforating Gastric and Duod nal Ulcer A Report f Nine Cases. Surg Gynec & Obst 9 3 xw1 Ey S 1g Cynec & Obst

The author calls attention t the common occur rence of gastric and duodenal ulcer and the frequency of perforation seeking to put on his guard the general practitioner who rarely sees more than

an occasio al case In discussing the symptoms and diagnosis he emphasizes the importance of the history of indirestion the sudden ess of onset the severe Louislike pains and ma ked abdominal rigidity. The conditions most likely to be confused with perforated stom ch or duodenum re extra uterme pregnancy acute pancreatitis phiegmonous cholecystitis pneu monia and most often with chronic appendicitis In cases where there is grave doubt as to whether t is appendicitis or perforation, the author opposes a comprom se incisio thinking it better to make to incisions if the first wrongly placed If after a gridinon incision has been made, the trouble proves to be a perforation the first incision can be used for dramage Closure of the perforation with a reinforced purse string suture rather than excision is advised It is thought safer to a old perf rming a ga tro entero tomy unless epa of a duodenal per forat on encroaches on the lumen to such a extent as t demand it Drau age is advocated in all cases

In the serves of cases reported there were fix per foraxtons of the dondersum and fou of the stomach All of th f mer occurred the first portion and on the anterior. The first portion and on the anterior from the server of the gastine per first now, two were on the lesser curvatured we others were at the pylonic end, one on the anterior first per post to raurface. All were of sudden cases: Eight gave a history of dyspepsia. In one case there are no record. I wo cases we re complicated by pinen mouns and one by historyth. Seven I the patients recovered two died making a mortal ty of tw nty two per can:



Fig 3 (M lise) D enticule peri tenen long with ulceration in itomach id first part of duodenum

the infiltrated thisues Until some mean are devised to reach an early d agnosis of the condition the mor tality will necessarily remain extremely high

J II Salles

Wilkie D P D Duodenal Diverticula and Duplicature of the Duoden I Wall Ed b if

J 1013 1 2 9

By Sing Cynec & Obst

The author attempts a review of the literature and appends a description of several cases which have come under his observation In the literature there are reports of only 68 cases of diverticulum and the large percentage of these were found in elderly people at autopsy and in 83 per cent of the cases involved the second portion of the duodenum The location of the opening of the diverticulum is most frequently near the ampulla of Vater or near the opening of the duct of Santorini The sac is usually phencal in shape and may vary in size from that of a hemp seed to that of a hen a egg The walls of the sac are made up almost entirely of mucosa and submuçosa the muscular layers being absent either ending abruptly at the neck of the sac or in a few cases failing if gradually over the proximal part of the sac. The accusually springs from the postero internal aspect of the duodenum and thus hes in contact with the head of the pancreas, which it indents

As to the etology of these di criticula there are wested theories. The author believes that the large proportion of these, condutions are due to congential abnormal its. During embryonic hie the bepatite and pancreatic anlage are given off from the duodenum in the form of bods. It is reasonable to suppose that an extra bud from the primitive gut might a vitually form a de erticul in. This theory is further supported by the facts that the direct unit and its generous good the cases garaneous desired with the properties of the construction of the control with the

In the reg n f th first part of the duod num occasional cises of directiculum have been reported. These apparently arise from an old ulcer and may be a sociated with stenon. In d erticula f the estibule of the duodenum the portion just beyond the psi just the telology stems to be the matorimical by we k will in the region when when any in



Fg 4 (Wilke) Ulcer divertical m of first part of duoden m

crease in intraduodenal pressure occurs give way to form a pouching out of the wall

Duplicature of the duodenal wall usually in the form of ring like constriction may occur at any location but is most commonly found in the first and second portions. This condition usually presents itself as a valve like projection of the mu coas into the lumen of the bowd and may give rise to considerable narrowing of the lumen On closer examination these projections are seen to constan all the livers of the bowd and the impression given all the livers of the bowd and the impression given for the endough the discharma reto redundant for the endough the discharma reto redundant doubted coopen tall way has a discountered with a discreticidum.

The case reports are very interesting and especial is bring out the fact that these conditions divertic ula and duplicatures of the duodenal wall may be associated with many grave pathological conditions as a result of their presence J H SRUES

Hartweii J A Intestinal Obstruction J Ero Med 19 3 39 By Surg Gynec & Obst Whipple Stone and Bernheim studied the cause

whippic Stone and Bernheim studied the cause of death in dogs with high intestinal obstruction by producing a closed loop of the duodenum beginning



Fg 5 (W kie) Wide mouthed di erticulum of th



Fer (N.M.) Coren Histolisch est I mof thed len m long with topical resoluted six I shall hate the harmorthism panerest is, fit necross in the extroheratio great made gall times

d gesting receed the cp i more completely filled with the actic chym i condening the present of Brunner' glani (I concer es it probal! that the finishing to these of gratine diges to mare rece ed here ly the small port in of thyme thus related from the lulk of food; in his mark

Contruy to the accepted 1 was of physiolog 1 expectally, can on Col believes that during the syst 1 fewers gettine cycl (a all defined by mithe pixol is own as 1 throught 1 times a sm Il meant of 1 gal 1 chyme 2 propelled into the tap. The part of 1 ce pulson on up exabout except the color of 1 throught 1 times a sm Il meant of 1 ce pulson to up exabotic except the color of 1 ce pulson to 1 ce puls

further; teresting co. 1 to reached is that the field a from the regit in mixing his test of the implying of the tim h princed not to the puloric sph. Circ b to not he traction which withirs the chyme from the reservoir cap the dwodnum; replanshed from the c.p. d not from the tom ch.

Annes RI R troperit neat Ruptu f th Duod num Proc Aoy bot Urd 9.3 burg bec 267 By burg Gyne. & Obst

The author g es desc pt fin c ses whi h



Fig. (W.R.) De rikule permeter en sale with the taken first part of 1 ien m, have he east it nid gill stone mit it med hepatis, rebos

other e we while has cell ted from the liter ature Both of the cree lescribed resulted from a len e a limboth asset duth resulted.

O me to th nat m I c nd tion to report ton I rupture loes not present symptom t I enough as a rule to mak peration I much avail. The onset i is ally with cold rable hock but th a wally t moverey all the patient foes n t pent r I rupture f a net Only lit r lo the utstand gf ttures f the case enal le a probable The fe tures r the f th 1 g (t) itgn × retroper t neal travatat o f luce enal content Il e travaeatso ft e t nd into the ili cf sa aniiraniso toga go i th low rimbar n! ha region ar I c ntinuou bene with the r lullre Th mit ni iten not a pected until peration h n th nd tor of th

ton mattract tie ton It i until friction lored not he my be or neighbor perfect in the my be or neighbor perfect in the neighbor perfect in the thought until morning in the fill in the 110 m and in one case nearly the absolute which is not perfect to the neighbor perfect from the fill in the neighbor perfect from the fill in the neighbor perfect from the fill in the perfect from the fill in the perfect from the pe

Ih tre tm t f this cond from h s bee very uneatt factory because the jmp tom dicting the necessity for operation do not apps, evily enough for the operation to lo any good! I ree dra mag, the great essential and t may be n eees n t make multiple measions in the b k to then fally fru

Schub et G Contributions to Post Operative Zischr Heus (B strage um postoperat en Ileus)

f God et h a Go ak o 3 kanu 500 By Zentralbi f d ges Gynäk u Geburtsh d Grenageb

Post-operative ileus appears ten to fourteen days after laparotomy The causes are (1) Mechanical irritation of the intestines and peritoneum (2) infection of the abdominal cavity (3) agglutination of intestinal loops to wounds and bands of adhe sions (1) closure of mesenteric vessels ential diagnosis between paralytic and mechanical nost-operative ileus is of secondary importance for the treatment

Pr phylaxis Avoid too severe laxation before operation The evening before use enemas but not lavatives Do not starve the patient during the preparatory treatment only the supper the A careful use of laparotomy pads overcomes the surfaces and stumps must be carefully covered with nentoncum

liter treatment. The bowels are stumulated by hot applications If the bowels are sluggish physostigmin is given but not glycerine and water enemas \omiting with obstinate retention of gas is treated by irrigation of the stomach and high colonic flushing. If obstruction of the duodenum is suspected the patient is placed upon the left side and the stomach is washed out. Should these measures fail the abdomen is again opened. An enterostomy should be avoided if possible

In paralytic ileus a long intestinal tube is inserted through the rectum as high up as possible and under control of the hand of the surgeon If the bowel remains distended even if a good evacuation is obtained the same is incised or punctured and su tured into the laparotomy incision. In post operative diffuse peritoritis the abdomen is opened on both sides and irrigated the boxels are emptied by a double bilateral enterostomy. In mechanical ileus the adhesions are loosened and the intestinal loops are tested to determine their viab lity. If a suspicion of gangrene exists a primary resection of the bowel is performed pro ided the general condition of the pat ent perm to it otherwise enterestomy The earlier the abdomen is reopened the better the results will be Mich E

Sasaki J The Comparat e Value of Free Flaps from the Omentum Peritoneum and M ntery for Strengthening Sutures (\text{\text{Cr}} glet hende Studie berden\text{\text{h}} th erst kungswert des imge telten \text{\text{Ne}} the Pento eal Mesenteri llappen)

De ! k Z! k f Ck 9 3 ctm 6 De t h Zt h f Ch 9 3 cxxn 6
By Zentraibl f d ges Gynal u Geburtsh d Grenzeeb

Sa akı carried out numerous experiments on dogs to determ ne whether free flaps from the omentum pentoneum o mesentery can be used saf ly to reinforce unsatisfactory sutures in stomach and intestinal wounds and to prevent perit itis. He decided in the affirmative. In his experiments the small intestine was resected and the ends brought together with only a single suture. Instead of suturing the serous membrane a transplanted flap was applied When peritoneal or mesenteric flaps were used the animals lived but when flans from the omentum were used they died. This fact the author attributes to the slighter and more irregular development of the elastic fibers in the omentum which makes it impossible to apply it as closely to the intestine as the flaps from the peritoneum and mesenterv YON TAPPEINER

Frank Atresis of the Anus (Über Atresis Ani) Housisch f Geburish u Gy ak 9 3 xxxvm, 340 By Zentralbi f d ges Gynal u Geburish s d Grenzgeb

In concluding a report of two successfully operated cases Frank advises early operation. Lostponing the operation a few days causes the children to lose weight and strength in cases with an internal fistula the danger of an ascending infection of the urinary tract is increased On account of the dan ger of gangrene it is inadvisable to attempt drawing the blind pouch downward especially if the entire sigmoid is absent It is better to perform a laparot omy and make an artificial anus

Barnes R. II A Method of Operating on Fistula Without Cutting Muscular Tissue Prociolog st 19 3 1 26 By Surg Gyn & Obst

The author believes that the usual operations for fistula are too mutilating and that cutting the sphincter muscle even at right angles will occasionally result in a case of incontinence. He heheves that dissection and suture operations are open to serious objection because of working in a region that is always contaminated by infectious material He condemns the indiscriminate and routine use of the probe as also the injection of fluids or semifluids for diagnosis

The author describes a new method for operat ing upon fistula in which he does not cut the sphincters He has used this method for the past two years

An incision parallel to the external sphincter muscle and directly over the abscess cavity is made extending just through the skin Through this incision all of the scar tissue of the fistulous tract is removed up to and including the internal open ing care being taken to avoid all possible in tury to normal tissue especially muscle. An in cision is then made at the skin margin of the anal canal with its center crossed by an imamnary vertical line that passes through the internal open This incision is connected with the internal opening by dissecting a muco-cutaneous flap Gauze drainage is placed in this submucous tract extending up to the internal opening and is Lept there until the external wound has healed The external wound is treated the same as if it were an acute abscess cavity When it has healed there is left a submucous tract which can be incised under local anaethesia

PLOYD B RILEY

just below the pancreatic ducts and ending beyond the suspensory ligament. This portion was isolated from the remainder of the intestinal tract by tying a heavy ligature tightly at these two points and burying it under an inverted layer of the peritoneum after which a gastro-enterostomy was done As dogs so treated died in from 36 to 72 hours the authors inferred that there developed in the closed loop a poisonous material the absorption of which caused death. Since the closed loop contained neither gastric secretion bile nor pancreatic ruice the conclusion seemed inevitable that some altera tion in the loop function was responsible for

A senes of careful and well controlled experiments we then undertaken to study the nature and if cosuble to determine the source of the poison. The method employed was to produce the isolated loop collect the contents sternize them by heating to 60° C filtering them and then after autolysis to lect them into a healthy dog intravenously sub cutaneously or intrapentoneally. It was demon strated in this way that dogs so injected died promptly Further the authors were unable to isolate such a poisonous material from the normal intestine by any method of treatment and if the mucosa of the loop were host destroyed by a fl oride the possons did not appear Lastiy some dogs died within a few days when the loop was drained externally there being an absorption d rectly from the mucosa and not from the lumen The a thors therefore believe that there is no escape from the conclusion that a poisonous ubstance i formed in this closed duodenal loop absorbed from it causing toxication and death Injection of the toxic sub stance into a normal dog produces intoxication and a reaction more I tense than but similar to that develops g in a closed loop dog In substance they claim to have proved that a closed loop of intestine without undergoing ny morphological change produces a toxic substance which is absorbed a d causes death Moreover they infer that a similar condition exi ts in simple intestinal obstruction and that here also death results from the bsorption of this same poison

If riwell fails to find any evidence in the authors experim ats as published to justify these claims On the contrary he believes that the protocols defin tely sh w a damage to the intestinal wall and that the toric substance they are dealing with arises from this source. In the absence of this dam ge no toxem t is present except that pro duced by the loss of water in the vomitus. He submits a re iew of their protocols in a pport f

this 11 %

A study of their cases clearly dem n trates th t the length of hie is in inverse ratio to the d mage occurring 1 the 1 testine All the an mals were under pr cucally identical conditions as f r stag ation of the i testi al cont ats i concerned nd if the poison arose from that source functional changes the mucosa they should have

lived approximately the same length of time 4 simple explanation is forthcoming for the varying damage to the intestin When antiperistal is i sufficient to empty the intest e toward the stomach no damage results. When this is absent the accumulated secretion distend the bowel until the curry lation is obstructed and the damage results administration of saline subcutaneously exerts no influence either on the production of the posen under this condition its absorption or its elimina tion and the dogs sicken and die in spite of this treatment

The author's experiments show that many other examples might be cited to show that in the absence of damage to the intestme no symptoms of posson ing arise provided the water lost by vomiting is replaced and in the presence of such damage no amount of saline will, to an appreciable extent affect the development I poisoning or prevent death The conclusion seems inevitable that the only poison present in intestinal obstruction arises from the damage secondary to the obstruction and not from the stagnation of intestinal contents or an altered function of a normally appearing mucosa

As final pro of Hartwell's position it is reported that by exercis ng great care in avoiding damage to the intestinal wall it is found possible to keep dogs with the closed loop alive for a comparate ely long репос

The application of these facts to intestinal obstruc tion in man must be made with reserve. The human testine is apparently incapable of withstanding the same amount of distention as a dog without damage and consequently a possoned condition occurs earlier n man. However there are two im porta t result f this experimental work The need of large mounts of saline subcutaneously is proved and has been used by the author with advantage patients having readily absorbed three to six quarts in a hours. There is no necessity of dr ining out the intestinal contents unless the bo el is damaged 5 mple stagnation does not yield a poisonous subtance, and consequently the release of the obstruc tion by operat on is ufficient. Whin however strangulation has begun the materi I above the obstruction should be removed and if extensi e damage exists a continued drainage through an enterostomy may be needed Grozce L Bert

kahn L M Th Absence of the Sausage Sh ped Tumor' and th Mass per Rectum in Intussuception in Infants Med Rev 10 3 lyvn 526 By Surg (ync & Obst

This simply emphasizes the fact that in the early stages of int ssusception, and even in some cases in the later stages, a tumor is not palpable. This tumor may be located beneath the spleen a d be entirely covered by that o gan. One should not d lay simply because the sausage shaped tumo and mass per rectum are not to be found may help in the diagnosis of the cond tion

C G GRELEE

liver spleen and Lidney. In all cases the blood was drawn from the wound before the sewing on of the fascia because its presence hindered the healing of the fascia. They resected parts of the organs covered the surfaces of the wounds with flaps of fascia fixed to the capsule with a few sutures and obtained prompt cessation of bleeding and complete healing Microscopic examination after thirty days showed complete preservation of the fascia normal tissue under it and no formation of connec tive tissue between only in the Lidneys could they detect the zone of cortical necrosis described by Barth and partial pecrosis of the Lidney elements In other experiments perforating wounds of these organs were made and fascia flaps drawn through the wounds and sutured to the capsule on both sides with the same results.

In a thrd senes of experiments the kidneys were cut into several parts the wounds coming down into the kidney pekis. At the same time the kidney was decapsulated then wrapped in a flap of facts that enclosed the whole organ. Functional tests with noigo-carman after peniod of from 15 to 49 days showed no d fierence between the normal kidney and the one operated on In two cases hysline cylni lens were found in the unne in the third in which the severest injury had been done there were no pathological findings in the unne on position of the first contractions were value at the site of the kidney enclosing it completely. Only insignificant inear constractions were value at the site of the was difficult to see the places where the wounds had been Microsophically there was no zone of cortical necros and the zone of partial necross was small.

These plendid results in multiple wounds of the kidney: a timbuted by the authors to the fact that by their method i let! adaptation of the wounded surfaces so bitained and thet use destroying utures through the prirenchy ma of the organ are avoided. The secondary contraction often observed in decap-ultition of the kidney cau ed by the formation of a new connective tissue capsule has never or curred in their cases though they used the method once for a imple decapyulation. Therefore they recommend it in cases of decapsulation. They sam up their results as follows:

I fascia placed on a bleeding wound urface acts as a leving tamps n

2 In free fisch tran plantation for wounds of organ only a f w uperficial sutures n ed be used and light res inside the organ which injure the ti sue secrets in the a sided

ti sue severeis — n be a or led 3. The tr n plintation of fiscial does not cause any connective tiss e proliferation in parenchyma tous organs

A The wrapping of a tim organ in a flap of fascia the best substitute for suture and does not cause any atrophy of glandular tissue

5 The hidness can recover from multiple wou ds and function sati factorils

6 The withdrawal of the blood from the wounds of parenchymatou organs is an important point for their recovery

7 Wrapping the decapsulated Lidney in a flap of fascia prevents secondary contraction of the organ RIESENAMPFY

Buckley P: True Total Enucleation of Two Hydatid Cysts from the Same Liver But M J 9 3 1 725 By Surg Cynec & Olst

A girl age 13 presented an epigastric swelling slightly to the left. A second tumor was located in the position of the right kidney. At operation a turnor the size of a tenny ball was found in the left lobe of the liver and one a little smaller in the right lobe. The right cyst with its capsule was removed entire. The left was also removed in the same way except that the capsule was runtured The right cavity was packed with gause. The left was closed with cat gut and a rubber drain put down to it Thirteen months later the child was in normal health. The author states that what is usually called the capsule 1 really the ectocyst and derived from the cyst itself rather than the organ in which it lies He states the removal of the endocyst in his opinion is not sufficient. The ectocyst layer must be removed when possible without grave danger from hemorrhage M S HE DERSON

Erdmann J F Acute Pancreatitis Ohio St M

J 913 tt 403

B S rg Gynec & Obst

The author considers at length the marked tower mia which so often is an accompaniment of acute pancreatitis. The theories as to its cause are many and no positi e proof has been established as to which one is correct. The anatomical arrangement of the ducts would point toward a backing up of the bile into the princreatic ducts as a possible cause That this is an important point is seen from the number of gall tract conditions which are associated with pancreatitis and it has also been shown experi mentally that injection of bile into the pancreatic ducts will produce an inflammation Cultures of bacteria act more markedly on the pancreas when they are given together with bile is to ju t what causes the toxamia no one knows Culcke believes death in his necros a experimenta was due to an intorication with tryps n Speece Sailer and Torre) belie e the toxamia is due to an increase of the globulm content of the blood

The puthology of acute pancreatitis may be classed a follows hemorrhagic sloughing or gangre nou and ppur ti e In the hemorrhagic there is marked end ma of infittation in the retroitens-verse col e like black through the pertinorum. Fat ecco i evidenced by the yellowish white plaques exist for through the omercum and periton um. These are due to the deposition of initia at also belained from the splitting of the fat into fatty ands and glycenn. There futly acids may later unite with calcium salt to form calcium salts to form calcium salts.

Zobel A J: A Further Consideration of Sir Charles Ball & Operation for Internal Ham Charles 1934 & Syrval 2013 135 orrholds Free i gul 2013 135 Ily Surg ( ynec & Oi t

The author reviews Ball's technique and remarks that he has followed very closely the work of many of the best operators in this country and abroad and is quite sure that ad erse results obtained by them

are lu to their neglect to follow rigidly the tech-nique described by Hall In order to prevent ordems and eversion of mucous cutaneous line or the other extreme & stricture which may follow inci ion at the outer edge of the revoluted cutaneous ring Ball commences his dis section at a point between the pectinate line and the outer edge of the cutaneous ring. The Incision is curved around the base of the pile and its grantest convexity does not involve more than one third of the cutaneous ring while the en is terminate in mucous membrane at each side of the ple The exactness of this incision is essential to success Pobel f llows the remaining steps of the Ball opera tion in detail except that he loes n t crush the base of the pile so heat ly as was d ne in the original operation The o jects as and their an wers tollow

That the post-operative pain i greater than after the usual ligature or the clamp and cauters method Lobel thinks th t the use of fine strong I nen thread mate d of silk goe far toward precentle and not unnecessary dilatk n of the ph note a at the beginning of th operatio is another I ment toward its pre ention. In his own experience there was no pain to speak of

That the I ration of the healing per od i not shortened because f the slugh ng f the l ga ture from either the skin r ng or pedick before union takes place I we g the wound to heal by granula tion The healing peru ! in the author s wn cases was shorter than after the other operations

Th t "there ; a necess to for unusual watch fulness that all ligatures if to be rem ved a th y abough. The author was careful to introduce the sk; suture just in th edge of the firp and never experie cril any troubl about the coming away of

th I gatur in the u ual time

4 That "failing t secure primary unso ke tabs frequently a main for a beequ at removal If Ball stechnique is followed skin t ga will not occur That no time I saved by this mod fication

of the ligature operation The author agrees with this statement and believes that in reality the time

is som what longer than u ual 6 Ihat there is danger of secondary hæmor

thing from a carly tearing off of the pedicle by If the pile is not crushed so beauty as in the B il techn que and the I gature not hit long and hanging out I the to be pulled upo there is no unusual danger of hamorrhage LLOYD B RILEY

LIVER PANCREAS AND SPLEEN Case J T: Röntgenoscopy of the Li er and Bill ry 1 ages with Special Reference to Ily Surg Cynre & Chat

Contributory evulence of considerable value regarding hepatic leasons may be often obt mel b the use of the \(\text{Ta}\). The upper is rd r of the liver normally smooth and coincid at with th shadow of the daphragm may show nodel The shadow of the inferior surface a ord arily co fused with that of the subjecent organs but may be emphysized by inflation of the stom ch or color Signs of subphrenic abscess include (1) limited and painful happragmatic movement (2) bigh projection of the disphragmatic contour (1) pul monary involument from infection or rupture and (4) if goe be present the appearance of the fim i level bel wit

For a number of years it has been thought scarcely with whil to submit a patient with gill stones to a runtg n e amination. This view was founded on the fact that the principal constituent of gall tones is cholesterin. In Case ala t thou and d gestive tract examinations howe er he id atifed gall stones rad ologically in 48 cases - about 5 per cent He compares the with W. J. Mayo gestimate of a to 5 percentage frequency of gall stones in per so 4 of all ages a 5 t. 8 percentage frequency in wom n over 50 and a 2 to 4 pe cent go frequency in men over 50. Case is of the of imon that gill stones may be how ratiof greatly in 40 t 50 perc ntofth can in hi htherex st II explains this ball in the grounds that radiol gigal technique ha va the improved with reg ruto soft t saued tal. plat s are made more often a t more fas after the bismuth m al) ser ning is done more c tifully and stones contrin paq e material (pigmant lime) in re-often than a upposed. Gall stone hadows mu t be i fitrentiated from shado s due to c learnous leposits in the costal cartilages ( t reoscopy) ranal calcult and calcareous depos to in tuberculou kidn ys (pyelograt by) and calcified

mesentene lymph nodes

Contributorye ideac (the presence fgall stones elected after the bi muth mill cludes hepat fixa tim f the tomsch with a pla ement of the pylorus to the right and upward a t n ler spot c lized on the outer sife f the duod num the demonstrability of R ed 1 s lobe an you wally high positi n f th hepat flexure rapid emptying of the at much manufestation of spasm : the stom ach an laberran es of the s gmoul

ALBERT MIL R

Waljaschk GA undlebed w A.A Th Treat ment of Injuries of the Li er Spicen
kidnes (/ Truce der Reha llung on Lebe
liz nd heren nden) R hirach o 5 x 9 5 24 By Lentrallel f d ges Ch i (renzgeb.

In a series f e periments on dogs the uthors used fee fascia tra splantation fir injuries of the

## SURGERY OF THE EXTREMITIES

DISEASES OF BONES JOINTS MUSCLES, ETC GENERAL CONDITIONS COMMONLY FOUND IN THE EXTREMITIES

Welss & 1 Hypophysin Treatment of Rickets (Zur Frage der Hypophysentherapie bei Rachitis)
Therap II natsk Berl 19 3 xxvn 400
By Zentralbl f d ges Chir u i Grenzgeb

Histories are given of a series of cases of mild and severe rickets in children which improved markedly in the comparatively short time of from six to ten weeks on the administration of tablets of extract of the hypophysis GENEWERN

rwitz S H Oateltis Deformans Paget a Disease B il Joh s II phus Hosp 1913 vziv 263 By Surg Gynec & Obst Hurwitz S H

This report by Hurwitz includes six cases of estertis deformans Three of these the author found in the records of over 30 000 medical admissions to the Johns Hopkins Hospital and three were re corded in the much larger number of admissions to the Johns Hopkins Hospital Dispensary Although all of the six cases present essentially the features of the disease described by Paget the comparative rarity of the affection prompted the author to put them on record Clinical records have been very thoroughly taken and recorded and they include careful measurements photographs and \ rays The subject is then discussed from various phases of pathology etiology and chinical signs and symp toms

With reference to the etiology the author be lieves that the most interesting and stimulating view is that which regards osteitis deformans as a result of faulty metabolism due to a perversion of the internal secretions and he points to the fact that recent additions to our knowledge of the in fluence exerted by the hypophysis and the parathy roids in calcium metabolism should have called forth such views

I rom the author a observation of these cases he believes that in the present state of our knowledge the assumption of a casual connection between the internal secretions and osteitis deformans is mere speculation but as certain authors have pointed out the metabolic processes in this disease are very little understood and it may be that accurate metabolic studies in osteitis deformans will help to solve the problem of its causation

GEORGE E BEILB

Ely L. W Diseases of Jo nt and Bone Marrow 

Continuing from a previous paper. Elv classified chromic arthritis of the spine as one of the forms due to the same cause as in other joints. The pathol ogy is an ossilying p ocess avolving the cartilage of the point surfaces and of the ligaments The

new bone formation may extend upon the ribs or encroach on the spinal canal The symptom atology consists of pain stiffness and deformity either a long posterior curve or an obliteration of normal curves resulting in a poker back differential diagnosis from Pott s disease is some times important. In Pott's disease there is rarefaction instead of hypertrophy the lesion is more localized it is not often complicated by diseases of other joints and abscess is more frequent. Im portant points in treatment are the removal of the source of infection rest and protection.

Charcof's sount Ely regards this as primarily a lesion of the lymphoid marrow and sy novia probably of luctic origin and refers to it as tabetic osteoarthropathy The pathology consists of a low grade eroding inflammation localized to certain spots resulting in a joint filled with fluid in which float pieces of the killed bone. The joint becomes loose subluvated and wobbly and its character istic histological structure is lost. The onset is a sudden occurrence of hard cedematous swelling without pain Crepitation is obtained and distortions occur The general neurological signs of tabes are present Conservative treatment is best Resection seems to be good for ankles but poor for Lnees

Ankylosis in its modern meaning is joint stiffness The term contracture should replace the term fibrous ankylosi If any motion is present the ankylosis is not bony Mobilization is not in dicated and if there is an active process may do harm Old tuberculous joints ankilosed in de formity should be carefully reduced and fixed in correct position Vilder forms of fibrous ankylosis may yield to massage Arthroplasty may be done for bony ankylosis For this the interposition of autopla tic flaps of fascia is better than introduction of any foreign matte Joint transplantation is at present on an experimental basis

II 4 CLARE

Owen S A Syph I tic D seases of Jo nts and Bones in Childhood Their Differential Di agnosis from the Medical Standpoint Med Pres & Crc 93 xc 38

By Surg Cy ec & Olot

A very high percentage of congenitally syphilitie children give a strong positive \\ assermann reaction so that a negative result is stronger evidence against congental syphilis than a negative result obtained in cases of acquired syph lis in older persons. In infant under one year of age joint affections are rarely due to rheumatism Some confusion may arise in atypical cases of miantile scuricy

Scurvy is m re likely t be symmetrical, and the physical signs point to a lesion of the shaft rather than of the joint Spongy gums pseudocon junctival hamorrhages, epistaxis hamaturia and melæna do not occur in syphilis More frequently the constitutional state in recent scurvy is good. In melanotic children especially those uffering from chronic enterities cedema of the limbs can hardly be mistaken for a specific lesion. In such cases tetany is common In rickets of older children hyperæsthesia, subjective pains pseudoparesis and frequently an accumulation of fat occur together with the other classic signs of rickets. In cases of early poliomy chitis, the toncless flabby state of the muscles the definite onset of the process and the

loss of the deep reflexes will differentiate rheumatism in infancy is practically unknown co existence of any evidence of myocarditis en docarditis pericarditis, and choreiform movements or nodules point to rheumatism. In purpura rheumatica there are pain sw lling of the joints and an cedema of the limbs In er, thema nodosum the appearance of the rash may be preceded by pain in the limbs In leuk emia especially the acute form joint swellings and orderns are noted and all of the superficial glands are enlarged. The blood shows a diminution in the red blood corpuscles an enor mous increase in the white blood corpuscles and in the lymphatic type a very great relative increase of the lymphocytes Although gonorrhocal ophthal msa is very common in infancy arthritis is quite infrequent. The swelling is apt to extend beyond the joint ca ity The joints I the linees and the wrists are most commonly in olved Cases of symmetrical synovitis rarely equire differentiation In hæmophilia there is a sudden effusion into the nonstamble occurs spont neously as the result of injury. The family h story usually clears up the diagnoss. Charrot a joint practically never occurs in children. The joungest patient seen by the author was a youth of sixteen The class c s gns ar partial subluxation of the joint severe repitus hypertrophied synovial fold a less normal outline steady progression and absence f pain together with the general signs of tabes Cout and rickets rarely requie differentiation I EDERICE G Dr

Chronic Local Infecti n sa Causa tiv I acto in Chronic Arthrit By 5 og Gymer & Ohat. 1m 93 k 8 4

Billings reports the clinical research confirming his previously expressed views as t the etiology of arthritis The focal disease wa usually situated in the head Most frequently this wa a streptococcus infection in the faucial tonsil Occasionally the cause was a chrome alveolar abscess a d hrome sinusitis due to streptococcus infection. In mono articular osteo arthritis of the h p especially chronic hypertrophic prostatitis with residual urine chro cystitis, and infection with the colon bacillus seemed to be etiological factors Chron c gonorrhoral and streptococcus and ction of the seminal evicles may also cause syst mic infection and arthritis in pa ucular

The dominant organism found in abscesses and sealed crypts of the faucial tonsil are treptococcus viridans and streptococcus harmolysis Rosenow a experiments show that the same organisms may be changed by cultural methods so that in mediums they may show progressive phases of transmutation ranging from a type of streptococcus to the pneumo coccus. At different stages of transmutation he has at will produced in the inoculated rabbit suppurative arthritis at another phase multiple proliferating arthritis endocarditis, pericarditis and my ocarditis at another phase myositis of the skeletal muscles at another phase a virulent type which produces arthritis with proliferative nd degenerative joint lessons and at another phase typical pneum ma These experiments probably clear up the difference in results and the varying types of streptococci described by many investigators

The morbid anatomy of experimental chronic arthritis is the same as that found in man and is the

specific reaction of the infectious organism

Arthritis deformans may be differentiated from other types of chrome arthritis by the characteristic coincident involvement of penarticular and articular structures chronic myositis consequent contractions of muscles secondary trophic changes due to a faulty metabolism malnutrition etc

The treatment and management must comprise (1) Removal of the cause (2) impro ement of immunity by rest personal hygiene including good food pure air and sunshine ritional calisthenses and physical culture moral support and cheerful nyironment lutogenous accuration may be added to still further improve immunity L. G Du

Dais D J Chroni Streptococcus Arthriti J A= N 1 931 By Su z C) ec & O'sst

Streptococcus infection of foints is due to the mucosus variety of the o gamesm D plococcus rheumaticus is also prone to attack joints. These cases can be differentiated clinically and by the history from other f rms of deforming arthritis The more acute attacks resemble cute articular rheumatism in symptom but in contrast they do not yield to salicylates but are persi tent and leave permanent on t changes. The pharyngeal ring is the most common entrance of the infection and a h story of tonsill t us of great value in establishing a d agnosis Davis fou da hemolytic streptococcus in tonsil f thirty eight out of forty cases of arthri tis from which the tons is were remo ed. The joint effusions examined from four ases showed no bacteria Blood cult res made from ten cases were n gati e The organism found forms a moderately wide zone

of hemolysis in blood plates is slightly smaller and forms borter chains than the other streptococci and although not highly virulent may produce arthritis when meeted into sumals in I rge doses The organisms may be reco ered from the joint

cavities of these animals early in the infection Endocardit results in about ten per cent In many of the cases studied complete cure resulted from exturpation of the tonsils Treatment with autogenous vaccines is valuable. In one case a cure was effected by three doses in two weeks

Magnus Experimental In estigations in Reeard to Purulent Arthritis and Secondary Samptoms (Experimentelle U tersuch agen ube eitrige Arthritis u d Folgeerschei unge ) Zent Ibl f Ch 913 xl 1184

By Zentralbl f d ses Chir u i Grenzech

Staphylococci of slight virulence were injected into the joints of rabbits and the animals fulled at different times. The joints were preserved in tota and cut. The findings were as follows Early and exten we necross of the articular cartilage sequestration of the cartilage or substitution of con nective tissue followed by ankylosis all stages of acute and chronic inflammation of the cansule roung over into obliteration contraction of the joints with extensive adaptation of the rough forms of the articulation ends as well as of the finer structure of the sponguesa to the new position of the joint Injections of tincture of todine into the infected noint had no therapeutic effect

Firmslie R C: Physical Treatment of Joint Diseases Particularly Tuberculosis (Die phy sikalische Behandlung der Gelenkkrankbeiten, im besonderen der tuberkulosen Gelenkkrankheiten)

Zis h f orthop Ch 913 xxxu, 405

By Tentralist f d ges Chir u 1 Grenzgeb

The etiology and pathology of the joint affection should be determined before a course of treatment is decided upon. In the first place it must be deter mined whether there is an acute inflammation or whether reparative processes are going on non tuberculous diseases the answer to this quest on determines whether the joint should be fixed or mobilized The treatment possible in tubercular diseases are the follow g I Re t by removing the body weight and forced ext asion of the joint ( ) fixation of the joint in a suitable position. The choice between the two treatment depend upon the nature of the joint affection. The autho did not get good results from the ambulatory treatment f joint tuberculosis n polyclinic patients. Fifty six per cent of them had suppuration and the re ulting def rmities were rather severe. Lim la therefore believes a the hospital treatment of these case Rit Dotte cre

it n T Th Treatment of Tuberculou Jo nt by the Internal and External Use of Iodine If d Press of Crc. 9.3 448 By S TR Cyner, & Obst. Dutt n T

The author strongly condemns the use f tuber culm a d the knife n the treatment of tuberculous joint altho gh he admits that there have been

some bulliant uccesses fllowing the treatment.

He himself has been curing so after case by
the 1 tr all and external use flodides with the

addition of a carefully constructed diet. Iodide of iron is given internally in large closes and a soluble sodide outment is applied twice a day to the affected ioint. The nationts are advised to keep windows closed to avoid cold and damp air especially night air and to take every advantage of warm dry air

and sunlight. Two recent cases are cited One was that of a young woman twenty two years of age with tuberculosis of the right Luce-joint. The treatment described above was begun March 12 1912. By January 2 1913 the leg was quite normal and the motion in the right knee-joint was as good as that in the left except when going up stairs

The second case was tuberculous of the wrist joint of a young gul fifteen years of age The patient had had hospital care for four years On July 17 1912 the socied treatment was begun and continued until a pustular rash came out over her forehead and face. By October 2 she had gamed twelve pounds in weight and the motion in the wrist joint was fairly good D O Recent

Teuli H iji II Atrophy of the Muscles in Affections of the Jo nts (Uber die Muskelatrophie be G lenk affektionen) N ppo gek Gakka Zas k
7 By Zentraibl f d ges Chir u 93 t Grenzgeb

The author caused inflammation of the knee joints in dors by injecting into them o a com of oil of turnentine and at the same time fle ing the Lneejoints to about 120 degrees and fixing them in the flexed position with a nail After from eight to mneteen days the animals were killed and the muscles of the lower extremities were carefully All of them were found to be more or less weighed. atrophied Between the atrophy of the extensors and the flexors and the mono and poly-articular muscles there was no gradual difference Inflam mations outside of the joint capsule and artificial immobilization of the joint may cause muscle atrophy to the same degree as affections within the This atrophy of the muscle is believed to be a simple atrophy from activity without numerical increase in nuclei

### FRACTURES AND DISLOCATIONS

Hawley G W Spontan ous Fracture in Car cinoma of the Bon s im J Orth Surg 1913 Hy Surg Gynec & Obst.

The author reports three cases with seven fractures In one case both femura were fractured, in another a single fracture of the humerus occurred and in the third fractures of the femur radius clavicle and humerus took place over a period of three years The disease of the bones in all the cases w secondary to carcinoma of the breast and n two of the cases a radical breast operation had been done w thout local recurrence Post mortem examination was performed in one case with extensive dissection of the skeleton Carcinoma meta tasis was found in the bones

The patient left ten weeks after operation. The skin wound healed promptly and a firm bony union resulted between the tibia and femur. He was advised to wer a full length leather stocking for six months.

### SURGERY OF THE BONES JOINTS ETC

Freeman L. Th External Bone Clamp V raus the Internal Bon Plate in the Operatic Treatment of Fractures J in V Au 10 3 1 93 By S 17 Cynec & Obst.

The ideal method of fixation would consist in the use of some material that would be absorbed rapidly and leave no foreign body to cause delayed union or late injection to substance now in use answers all these requirements. At present the plate and the clamp are applied most often and in ununited fractures the autogenous bone graft is rapidly ga ning ground The internal bone plate and the external clamp are very similar the only difference being that in one the part which unites them is outside of the skin and in the other it is The external clamps have several beneath it screws long enough to project well beyond the skin when they are ascreed into the bone. The external clamp is better than the internal plate because -

t It can be more early appl ed with less many ulation and de udition of the hone holes may be drilled and screws inserted with the fragme is in

almost any position

2 Nothing comes in contact with the line of fracture and the screws may be placed as far away from the break as desired Martin say that as a rule the presence of a plate instead of stim lating ostrogenesis between the broken bone ends, retard it.

13 If wally the extern I clamp will immobilize the fragments more firmly than the 1 ternal plate. The screen may be long because, they will be rounded later and the clamp may be ben y as it has out do of the tissues. Wh n a clamp is properly the limb may be packed up by the foot and thrown about m any direction we thout fear of disturbing the finature. If a pit the pulpoyed this can seldom be done we thout danger of bending or breaking it or pling the screen's from the lone. The principal and among of the extrems from the lone. The principal and among of the extrems from the lone. The principal and among of the extrems from the lower than the way of the extreme that they be general or even a local sensether that the way of a general or even a local sensether than the second of the extreme to the contract which the use of a sense of the extreme to the contract when the contract when the contract when the contract we have the contract when the contract when the contract which the use of a sense of the extreme the contract when the contract wh

Interval plates are constantly being taken out because of their fadure to hold the frag ments or because of infection. Among the disast same are to be a support of the frag ments or because of infection. Among the disast same and weight. This objection is easily disposed of honever because the large a de by portion which insures security and through the support of the fraging and the support of the fraging to the support of the fraging to the support of the support o

to the external clamp is the great danger of primary or secondary infection If the operation is clean primary infection will not occur with either a clamp or a plate. If the operation is not clean neither will present infection. In favor of the clamp however it may be said that its great advantage hes in the fact that it may be removed without a second operation. If secondary injection occurs with the clamp it appears late is trivial in amount and is confined strictly to the screw holes Infection does not spread easily with either screws or sutures, because a granulating channel is soon formed which affords a protecting wall In order to prove this point experiments were carried out by Powler who inserted screws through the soft parts of the bones He was able to demonstrate that the holes became lined with granulations in the course of three or four days Secondary infection may be prevented largely by dressings and the application of alcohol or tineture of notine

In conclusion the author states that both plate and clamps are of value in the hands f shilled surgeons. The external clamp is especially indicated in connection with the shalls of long bones. Clamshould be employed in combined fractures in preference to plates where there is any danger that infection will result from the injury.

PREDERICE G Dy s

Grores, E. W. H. Esperimental Observations on th Recal of Fract r a and the Influence upon It of Variou Operative Procedures

Had Pre & Cre 19 5 seve 516
By Surg Gynec & Obal
In a series of experiments with animals, principally
upon cats it was found that mobility at the site of

fracture is not essential to repair and that mobil ty and faulty fixtion lead to e cess of callus In cases where intrined Il 7, pegs were used the callous cond tion was found intermediate between that of should be fixed to the of few publics.

callous cond ton was found intermediate between that of about the firstion and that of fire mobility in cases where callus was stimulated by chemical excess of socoos issue, resulted. The degree of mobility determines whether there will be a false joint or a firm uson. In these experiments, ossafea ison was new r begain under the periostrum but the bulk of callies was first land down as cartifage.

As to the use of screws and plates in the fination of bones experience proves that within a few weeks, the m | nt| of such plates become loose the were stall ng out into the soft its such plates become loose the were stall ng out into the soft its such. This susually brings about serous effusions which breaks through the skin becomes infected c us g s aus and necessitates the removal of the foreign bodius. In order that a screw or pun abo it take a firm h is \( \) the bone and not soon gr way it must go through the whole thickness of the bone a duck the state of next contains. The death at later was across become loose a direct extradated supplecause they are foreign is not borne out by these experiment.

enlated from the radiograph. The main idea was that in the reduction of fractures less attention need be paid to the anatomical alignment of the fragments of the joint surfaces are in correct relation and the lines of weight bearing force functionally satisfactory Nature is wonderfully tolerant of frag ments if she can maintain the functional joint sur faces Skinner showed how the lines of weight bearing force may be charted on the negative and the proper adaptation for instance of the astragalus to the tibia which was the secret of the correction of ankle fracture noted. If the antero posterior ray negative shows the astragalus centered under the tibia the prognosis as to functional result is more favorable than with any anatomical alignment of fragments With regard to the wrist the author s axiom was that the entire styloid process of the lower end of the radius is constantly distal to a line which touches the tip of the ulnur styloid and is at a right angle to the longitudinal axis of the radius It is the tilting back of the lower end of the radius that interferes with the function at the wrist and this can be overcome only by the full extension of the fragment and the consequent normal position of the articulating surface to its normal weight bearing position. The proper reduction of the lower end of the fractured radius provides the correct charting which portends a good functional result

Haudel M: Central D slocation of the Fernus (Luxation femoric centrals) list kl lichnich 1913 xx11 1243 By Ze tralbild ges Chir u Grenzgeb

Isolated luxations of the femoral head are rare but Worner had collected 41 cases from the I terature in 1005. The mechanism is as follows. In falls upon the trochanter or the feet either the pelvis or the femur may act as the fixe I portion If it a the pelvis then the femoral head is driven again t the floor of the acetabular cauty. If the femur is fixed then the acetabulum is forcibly hooded over the head of the femus. In the majority of such accidents fracture of the a etabulum does n t occur and other forms of injury in this part f the body are much more common. If the luxat on is to take place the force mu t be d rected toward the center of the acctabulum and in line with the long axis of the neck an I head of the femur 1 e when the leg s midway between a iduction and abducts The consistency of the bone is of importance In elderly people fractur s of the ne L of the fem r are more common on account of the brittleness of the bone while in younger patients acceabular fra tures are not so rare. I mmary central di location of the femur can therefore occur when ther is a fracture f the acet bulum and th femoral head passes through the fractured area. But more commo ly the dislocation is secondary and brought about by more prolonged pressure or tracts n pon the head of the femur after the acetabulum has been Its tured Th diagnostic featu es re 1 dight

shortening of the leg on outward rotation r-3 cm elevation of the trochaniter and the presence of a tumor above Poupart 8 igament. The treatment in recent case consists in reduction by flexion and forcible adduction with a heavy pad on the inner side of the femure as a fulcrum. This is followed by extension for at least six weeks. If it is impossible to bring about reduction then extension alone must be tried. The prognosis as to function is not good and even as to life the outlook is poor as 70 per cent. did it in most closed a new acctabulum forms about the dislocated head.

Murphy J B Fixation of the Knee with Back ward Luxation of the Tibla Su g Cliu J B If 19ky 19 3 11, No 4 By Surg Gynee & Obst

A man of 37 years was admitted on account of limited motion of left knee On Sept 14 1011 he was struck on the knee by a falling mass of earth weighing about 150 pounds It broke to nieces on striking the leg and inflicted a small superficial skin cut at the time. He had slight prin in the leg at the time but the knee was not swollen. He was in bed four or five days but at no time did he have any pain. September 19th he got up on crutches After two or three days the knee began to seell and became very painful. He did not have a chill preceding the swelling and no elevation of tempera ture. He returned to bed because he could not wall on account of the pain. The leg was put in a cast for two months from the ankle to the thigh He had some pain then but it was not severe Then a cast was applied including the whole body and it was left on for three months. When removed February 1913 the knee was almost stiff and there was slight pain on movement and walking. Sen tember 1012 the knee was manipulated under angesthesia After that he noticed that the lower leg was luxated backward. Motion was not im proved Since that time he has had pain only on continued use and then only slight

On account of the uncertain diagnosi. Murphy varied his usual incision. A transverse one was made just below the patella and the patella split by double L incision as in lengthening tendors. The condition proved to be tuberculosis bence a typical resction was done not in arthrophisty. In patella and tuberculosiscip ule were tenoved and the ends of fenur and tiba quared off with Hier's saw. A slot was then made in the end of each bone and a phosphor bronze plate inserted to correct subluxation of tibia and to favor bony unit after removing the patella th ends of the patellar ligament and quadrices tendon were joined with chromic guit to ad in immobilizing the position.

One of the most important points in these cases of tuberculosis is immobilization. The phosphor bronze plate prevents motion and immobilizes the joint better than anyth ng elec can. Skin sutured with horsehar no drain. Straight cast placed on for three to as weeks.

The patient left ten weeks after operation The akin wound healed promptly and a firm bony union resulted between the tibus and femur He was advised to wear a full length leather stocking for six months.

# SURGERY OF THE BONES, JOINTS, ETC.

Freeman L. The External Bone Glamp Versus the Internal Bone Plats in the Operati e Treatment of Fractures 1 is M As 1071 in 190 II your (your & Ch i. The ideal method of firstion yould consist in the use of some material that would be absorbed use of some material that would be absorbed.

The ideal method of firstion would consist in the see of some material that would be absorbed rapidly and leave no foreign bonly to cuew delayed muon or late infection. As substance now in use asswers all these requirements. At present the plate and the clamp are applied most often send in ununited fractures the autogenous bone graft as rapidly gaining ground. The internal bone plate and the external change are very similar the only the cutting the country and the bone plate and the external change are very similar the only them to solve the first and in the other it is beceast it. The external change is every another than the other than the present of the fair and in the other it is because it is the property of the fair and in the other it is because it is the property of the fair and in the other it is because the property of the fair and in the other it is because the country of the fair and the property of the fair and the pr

clamp is better than the internal plate because —

1 It can be more easily applied with less manip
ulation and denudation of the bone holes may be
drilled and screes inverted with the fragments in

almost any position

2 Nothing comes in contact with the line of fracture and the screws may be placed as far away from the break as desired. Martin says that as a rule the presence is a plate material of timular ing osteogenesis between the broken bone ends retard it.

a 'taually the external clamp will immobilize the fragments more family than the internal plate. The screes may be long because they will be removed later and the lamp my be beavy as it I est out of of the tassace. When a clamp is properly interested any a fincture of the tuban or the femus the limbs my be picked up by the foot and thrown about no any direction without learn of dists bring the about no any direction without learn of dists bring the about no any direction without learn of dists bring the done we thout danger of bending or breaking it or pulling the 'crews from the bone. The principal advantage of the external clamp is that it my be easily removed at any time we thout the use of a ceasily removed at any time we thout the use of a

generial or ven vlocal annesthett.
Internal plastes are constantly being taken out
because of the r failure to bold the farg
ments or because of internal should be farg
ments or because of internal should be farg
size and wright. This objection is easily disposed
to however because the large and her y portion,
which I ures security and strength hes outsade
where it is productive of meltier inconvenience in or
ments of the strength of the strength of the control of the internal plast. The most plastate their those
of the internal plast. The most plastate between

to the external clamp is the great dauger of primary or secondary infection If the operation is clean primary infection will not occur with either a clamp or a plate If the operation is not clean neither will prevent injection. In favor of the clamp however it may be said that its great advantage hes in the fact that it may be removed without a second operation. If secondary infection occurs with the clamp it appears late is trivial in amount and is confined strictly to the screen holes Injection does not spread easily with either screws or sutures because a granulating channel is soon formed which allords a protecting wall. In order to prove this point experiments were carried out by Fowler who inserted screws through the soft marts of the bones He was able to demonstrate that the holes became fined with grapulations in the course of three or four days Secondary infection may be prevented largely by dressings and the application

of alcohol or fineture of sodine
In conclusion the author states that both plates
and clamps are of value in the hands of skilled
surgeon. The external clamp is especially indicated
in connection with the shafts of long bones. Clamps
should be employed in combined fractures in price
cence to nikate where there is any dancer that

infection will result from the injury
I REPERIOR G DEAS

Groves, F. W. H. Pxperimental Observations on the Renair of Fractures and the Influence upon It of Va lous Operative Procedur a Med Press & Cr. 913 sers 3 6
B. Surg Gjace & Obse

In a series of experiments with animals principally upon cats it was found that mobility at the site of fracture is not escential to repair and that mobility and faulty fivation lead to excess of callus

In cases where intramedullary pegs were used, the callous condit on was found intermediate between that of absolute firation and that of free mobility in cases where cill a sat unmaked by chemicals excess of oscensi usase resulted. The degree 'nationation of the company of the conditionation of the company of the contraction of the

As to the use of set we and plates in the fixtuon of home experience proves that within a few weeks the majority of such plates become loose the screws adding out into the soft itssues. This usually brings about serous effusion which breaks through the skin becomes indected caus go a sinus and acceptates the removal of the foregab bodies. In order that a series or pun bould it is a firm hold of the bone and not soon give say it must go through the whole thackness of the bone and the first on means of a not control. The idea that plates and control to the state of the sta

Methods of fracture fixation which do not involve direct exposure of the seat of injury give the most ideal results namely rapid union with minimum callus formation. In order to determine the rôle of the penosteum in the repair of fractures of the long bones a thin sheet of metal was placed beneath it. In a tibla examined twenty days after this procedure the formation of callus was well advanced beneath the plate and was extending from the ends of the plate under the periosteum. In studying the process of repair in communited fractures it was found that if the fragments were removed the periosteum restored to its original position and the ends of the main portions of the bone kept apart at their original distance repair occurred hardly at all or only very slowly In a tibia 42 days after such treat ment it was found that the union had been effected by fibrous tissue only and the little bone tissue growing from this started out from the bone ends and was not laid down from the periosteum. The results of these experiments are in complete accord with Macewen's observations which show that the periosteum itself lavs down no new bone but that the new formation occurs from the cut surface of the bone either from the main shaft or more rapidly from the separate fragments. The periosteum carries the vascular supply When this is absent the callus receives nourishment only from the two ends of the area involved and not from the ide Repair therefo e is slower and weaker than when the periosteum is in its normal pos tion

The conclusions drawn are summarized as follows

z Screws which merely bite into the side of the bone will rapidly loosen by a bone process of absorption if they are subjected to much tension

2 All fractured ends are conducive to good repair

3 The only way in which fractures can be firmly un ted by plates is by the use of pins screws and nuts which perforate the whole thickness of the shaft

Creat mobility of the ends of a fractured bone is likely to produce a false joint especially in the case of a single bone such as the femu 5 Marked mobility of the ends of a fractured

bone causes a great excess of callus

6 Metallic magnesium i absorbed in a bone and causes great callus excess 7 Indirect methods of fracture fixation give the

most ideal re ults and these re the only methods possible when dealing with combined and comimmuted cases

8 The periosteum has no power to form callus or new bone The periosteum is of great value in serving as

the chief vascular supply to the callus and in limiting its extent

Act e callus and bone formation always occurs from the broken surface of the bone and a very small fragment acts as a center for new bone grow th FREDERICE G. Dyas.

Ifesse F A The Therapy of Congenital Defects of the F bula with a Contribution to the Technique of Operations on the Epiphysis (Zur Therapi des kongenitalen Hibuldelektes ugleich em Beittag r kenntnis d'r Epiphysen operation) De ische Zis h f Chur 1913 478 By Zentralbi I d gea Chir u i Grenzgeb

The author describes in detail the case of a nine ear-old boy with a congenital defect of the fibula He believes that for the treatment of cases of this kind no definite rule can be laid down. The results of operative procedures it seems are not as good as those of conservative treatment for the degenerated and atrophied bones have but little tendency to heal after an operation With conservative treat ment there are hardly any failures \n early treat ment increases the growth energy of the bones operative treatment is used the time that it should be begun varies for different cases. The main danger of operative treatment is that the epiphyseal line may be injured

The author experimented to determine whether longitudinal splitting of the epiphyseal line accord ing to the method of Bardenheuer interferes with growth On account of the anatomical distribution of the vessels in young bones transverse operations always arrest development even though they do not hit the epiphyseal line directly. In most cases the experiments showed that strictly longitudinal split ting from the joint to the diaphysis if not too ex tensive neither retards nor incites growth but that if the splitting varies even slightly from the longitu dinal direction a decrease in growth results There fore Bardenbeuer a longitudinal splitting is very difficult and f the slightest mistake occurs resulting in the breaking off of a portion of the couply six it may be dangerous

From these facts the author concludes that treat ment should be conservative. In his own case a splint-encasing apparatus with a per equinus position and massage were employed with good results. An extensive bibliography is appended We CHERT

Von Tappener F H Tran plantability of a Tappener F 11 Tan pantibility or Ep physeal and Joint Cartil ge (Translanta t on labellett des 1 p physealtonpels und des Geleal knopels) Zt cle f de ge zep Hed 1913 49 By Zentralbi f d ges Ch 1 Grenzg b

In transplantation bone regularly undergoes necrotization Joint cartilage on the other hand survives both in autoplastic and homoplastic trans plantations The regeneration of the necrotic portion takes place by cellular substitution 1 e there is minigration of the preserved cartilage cells into the dead portion The intermediary cartilage rumains partly viable and retains the power of problerating and growing in length but the parts which do not undergo necrosis are not sufficient to guarantee an even approx mately normal longitu dinal growth Contrary to the above mentioned view of the author is the experience of Rehn who obtained much more fa orable results in home

plastic transplantation of the intermediary cartilage. The epiphysed cartilage remained almost entirely viable and the transplanted bone was not retarded in its growth.

In order to throw more light on these questions Tappemer made his experiments on dogs, whereas rats or rabbits had been used previously. The distal half of the second metatarsal hone was used as a transplant Healing without reaction occurred in autoplastic as well as homoplastic tran plants tions In autotransplantation the intermediary cartilage retains its vitality and does not lose its power of growth In homotransplantation the intermediary cartilage transplant is not treful chincally In all of the experiments there was shortening of the metatarsal bone Tappeings therefore confirms the opinions of carl er authors (Helferich Indeten Ahamen) and explains the divergent results of Rehn by the fact that he used only tery small p ces of bone which are more rapidly permeated by the nutritise fluid of the mother substance. Many other questions are discussed in this work and exact protocols with histologic reproductions are appended

Forbes, A. M. The Surgical Treatment of M. n. articular Rheumatold Arthriti of the Hip. Y. M. J. 19 3 Eva 614.

B) S. rg. Gyner & Obst.

The author in duct ung the variou treatments and destribute an operation for exci un of the fenoral herd states that the wa occa of the earliest modern treatment but was decreted because it may be a support of the states of th

He was Brackett's a non from the vateral superiors per to the superior extremity. If the great trackanter them down the external surface of the former three methes From the juscines of these trackets are the present of the contract of the

des of the neck of the femur to the scetabulum If a suison, are then inserted between the soft parts and the periodeum until the capsul; per forated on Il sides. The evul-ors are also carried around the intern is surfer of the scetabulum detaching the caps is in all parts from the acetabular rim.

By means of mampulation with the evul-or as a lever the head is carried out of the actabal m. In anterism needle att hed to a Gigl saw is inserted and carried round the anatoms. I neek of the femur m the man much he d remo ed. All

octeophies are removed from the zum of the accubulum. All hamornhage being controlled the neck is man publied into the accutabulum and the trackets are published in its mental post too and held by means of a wire nail. The deep mu cles are sutured as tightly as possible around the bolle in order to maintain the neck in the position once held by the head. The limb is put up in plaster in marked abduction and is held in this position for at least six week. Javes of Markets.

Stoffel A and Stoff I E New Point in Regard to Tendon Transplantation (New Sesicht punkte a Jehrn Gebut der Schuen berghannung D. Met med B k vir 1913 van 1880 By Zent 1916 I d ges Chu u I Grennech

Nikoladon s technique for the tendon tran plantation takes too little account of the morphology and physiology of the muscle. In choosing a muscle for tran plantation it is not enough to select one that lies as near as possible to the injured o c and whose loss will not be noticeable but the transplanted muscle should corre pond as nearly as possible to the one whose place it is to take in structure ongo and course For instance the flexor hallucis longus should not be used to replace the extensor longus digitorun ped a or tibialis anticus by drawing it through the interesseous membrane because se vice de tu bances of the function of the muscle are crused by pulling it through the narrow aperture and deflecting it from its normal course. This deflection can ally be partially obviated by detaching it from its origin and this steelf is detrimental. In tead the extensor hallucis longu or peronosus longu hould be chosen ince the r course is similar to that of the mustle to be replaced so that only a si ght displacement of the nd of the tendon a necessary ff x r hall co lo gu has been carned o er the ur face I the tibus in lead of pulling it through between the bones but in order to avoid the useless spiral test of the belly of the muscle four fifths of its origin had to be severed he this procedure is ndered powerful action impos the the flevor hallucis longua shoul I not be used to replace the tibi his anticus In tend the ext sor hallurs longu should be cho-From further examples given in the original rticl a d to re especially from their aperimental no L a dahout 50 operations the authors fin I that it is nece sa v to keep the muscle in its physiological stat ft asso hormally the muscle under only slight to son mly reacts a littl when its tendon is cut The dight t tretchi glessens is contractil ty In tra plant tion therefore it normal le ath should be mant noted

be ma nt used:

lor example: substituting for the quadrateps
the actionists bacter as semimembraneous of senteredineous they should not be targeted along the
translations. They should not be targeted along the
quadrateps corresponding to the "ying lengths
to a should be yet of the to correct an about
position of the injuried part by increased ten ion on
the transplanted muscle. The power obsolid by

corrected by some suitable procedure before the transplantation and only the normal contractility of the muscle made use of In correcting deformi ties of the feet, the trouble cannot be overcome by the formation of an artificial ligament by transplant ing the tendon of the tibialis anticus and fastening it as far toward the distal end of the periosteum of the tibia as possible For the same reason stretched muscles should not be shortened by operation since they are thereby put in the same state of tension that caused the stretching The muscle if left alone will soon adapt itself to the correct position of the hmb e pecially if strong contraction by electricity is begun at once For this purpose the authors attached to the nerve a thin metal wire which projected out of the wound and through the plaster cast and was attached several times a day to the cathode It was left in position from ten to twelve days conclusion they call attention to the importance of testing the contractility of the tran planted muscle by means of the electric current SIEVERS.

#### ORTHOPEDICS IN GENERAL

Berg, P Madelung a Def rmity of the Wrist Jont Carpus Valgus (Dre Madel nuche Deform itst dos Handgelenkes, Carpus valgu) A k f th p licks othersp U filch 9 3 xx, 35 By Le tralbi f dess Ch Grenzeb

In this paper Berg after consideration of the literature discusses Madelung's deformity of the wrist joint. Three new cases are reported one of which the author was able to keep under observation from its beginning to its complete development The cases are made to conform to Madelungs classification and only those are included which arise spontaneously during the period of develop ment without history of trauma or infection condition comes on gradually during a period of from one to two years The author considers late rickets as the etiological factor in these cases The point of origin a the eniphyseal line. All deformities of the radius occurring with the condition whether at the middle or lower third of the bone are to be looked upon as the results of muscular contractures In conclus on the suggestion is made to apply the term carpus valgus to all deformities of this type at the wrist regardless of the etiology, and to designate the classical Madelung s disease as carpu valgus

K HARD

Bohm M Cong nitsl Developm ntal Defects in the Sk 1 ton of the Trunk (D angeborenen E turk lungsi ble de Rumpfeleitt) T I ten i C 1 Med I ond 9 3 A g By rg (yncc & Obst

The author distinguishes five type of cong intal developmental defects in the skeleton f the trunk (i) curvature caused mechanically n utero () actual malformatio some of which are the esult of secondary form tions others of defect and still others of fusions (x) variations (cerv cal in)

numerous variations etc.) (4) primary congenital asymmetry of the thorax and abdomen and (5) disturbances of the direction of growth upon a phylogenic basis (pigeon and infundibular breast)

Whitbeck B H The Importance of the Treat ment of Weak Feet in Childhood *Ued Rev* Ress 1913 xr 539 By Surg Gynec & Obst

The proportion of weak feet among children is steadily on the increase as various statistics show The economic value involved has never been con aidered in figures though it is thought the results would be astounding if worked out upon accurate lines

The scrousness of flatfoot is fully appreciated by the military authorities and the examinations are very stringent on that point Statistics are given showing the discharges and rejections from the United States Army and Navy as well as from those of the English and Japanese armics because of flatfoot

The report of the Municipal Civil Service Commission of New York shows that in the last civil service examination for patrolimen and candidates out of 3 746 examined were rejected for flatfoot and 136 out of 2 820 candidates for the position of fireman were rejected for the same cause

Of 2030 boys at the De Witt Clinton High School New York City 667 or 32 per cent had weak feet and 260 or 12 per cent had broken arches In the elementary schools the percentage of flatfoot is said to be much higher though no exact figures are obtainable

In the Orthopedic Department of the Hospital for Ruptured and Crippled of New York 8 020 patients were treated in one year Of this number 2 10 suffered from flatfoot 244 were under 14 years of age and 529 were between 14 and 21 years of age

The causes enumerated as producing weak feet in children are I Congenital conditions of general weakness or shoromal development 2 Overweight of the body bringing undue strain upon the feet 3 Prolonged illness or general mainutintion when the muscular poner is greatly below normal 4 Improper attitudes assumed by children either as the result of the other mentioned causes or through faulty education or badly constructed shoes. The author's conclusions are

1 Weak foot is the most disabling and wide spread of all postural deformities affecting all classes

of society and occupations
2 A decidedly large number of cases exi t from early childhood

3 As a result of various causes the feet assume fault; att tudes which th ugh not necessarily causing disability in childhood are nevertheless pow ful factors for harm in adult life

pow ful factors for harm in adult life
4 The proper treatment of this condition in
childhood is essential to the prevention of disability
in adult life when interference with occupation is a

scrious matter

CHARLES M TACORS

Sweeney M T Gymnastics for Crippled Chil dren Am J Orlh Su g 1913 2 N 1

By bury Grace & Olist The author gives in general as well as in detail the methods and exercises used in cases of different types of deformity. She believes that the chief aim in the treatment of crippled children should be to adju t the child phy leally so that its sital re sistance will be increased and its activities por malized. Also that individual exercises are better than those given in class form and that these necial exercises under ideal conlictions should be part of the daily routine of the school I ach child should have daily at least fifteen minutes concentrated effort directed toward its pecial need and carri d out under the close supervision of a properly trained person Bestles localizing work on the special conditions present efforts should be made to im prove in general the chest capacity and thereby the circulation While th main efforts may be directed toward acti e w rk there are a certain number that cannot do active work. For these children there should be 3 tematic supervised rest periods

which re of the greatest importance The following condition are dealt with in detail and careful gymnastic prescriptions are given for

each type of case

Paralysi obst tricul spastic infantile tubercular loints, old and active congenital dislocations of the rachitic deformities, knock knees, bowlege scoliosis

traumatic amputations arthritic foints Lyphoscoloni

Gymna ties in these cases will not cure. They will reduce the liability to disease by improving general tone of body but they cannot obliterate the conditions which are generally of a fixed type Often as in the tubercular affections to improve the general con I tion is the lirect way to eliminate the process Therefore gymnastics may be largely influential in bringing about a cure.

In cases of pa tic paralysis co-ordinative work should be combined with precision exercises. They should not undertake exercises that bring into con-

traction muscles already contracted

In cases of infantile paralysis, the work is con-centrated on the parts paralyzed as Is also true in cases of obstetrical paralysis

Patients whose joints show active tubercu lar proces-es are given supervised periods of The old cases are given only such exercises as do not bring about motions in the affected region The other deformities which are too complex to be properly covered by an abstract are taken up in The apparatus needed is imple A table trapeze benches pulley weight dumb-bells and a few wa ds are en ugh The results are excellent, and at the end of three years the comparison of neights and measurements of these children shows marked increases besides producing on the whole a much healthier lot of children

fatore II and Seven.

## SURGIRY OF THE SLINAL COLUMN AND CORD

Elsberg C A : Some Surgical Featu es of In juries of the Spine with Special R ference to Spinal Fracture A S of Phil hu 206 By burg Cynec & Olest.

The author states that in his experience careful a ray study shows in a large proportion of cases of apparently trill ag pinal inju y lefinite fisures or fractures of the spinous or transverse processes and he suggests the possibility of slight traumatism play ing an important rôle in the etiology of spinal diseases The rupture of pinal betweents may also result from apparently triding injuries That such supture can lead to protract d and scrious symptoms is shown by a report of two cases operated upon

In fractures of the pine II berg believes that immediate lami ectoms is indicated in all of those cases which show incomplete cord symptoms. In the cases which have not been seen until late after the mjury laminectomy is also and ated but in such cases the results are never so good as when the operation is performed before the cord has been perm ently damaged by the ham rrhage and ordema which immediately follow the injury. In those cases a which there is a complete transverse mjury operation does harm rather than good BARNEY BROOKS

Schan A The Treatment of Scol on a (Die Be-handlung de Slokose) T I ternst Cont Med

Lond sors A g By Surg Gynec & Olst Congenital scoliosi is a deformity of the spinal column that occurs in post fortal hi The characterusts, symptom-complex is the format n of a curve none ide of the spinal column with a compensatory curve n th other The individual ertebra become wedge or diagonal shaped. The long column hows sign, of torsion. The cohosis 15 the result of a disturbant of the static weight bearing ability of the spinal column which is char acterized by an excess of the load imposed over the ab lity of the spine t bold it

In the young cohous may be benign or malignant. The benign form heals or comes to a land till with out with and in spite of treatment. The makemant scolos: gets worse to a degree which may cause severe disfigureme t It interferes with the ability to work and et n shortens the lif The cruses of the benign form of scolosis are usually physiological include g disturbances f the strength of th vertebre in early development chlorosis, poor nourish ment, etc Malignant scoliosis is caused by a disturbance of the bones of the spine in most cases

the so-called late rickets

In the treatment of scohosis two indications must be fulfilled (1) the indication of the cause (2) the indication of the finished deformity The causes of benign scoliosis are so manifold that it is impossible to lay down a plan of treatment for all cases After the deformity has occurred the indication is to restore the carrying power of the spinal column For the purpose of taking the weight off of the spine the orthopedic apparatus is of value its chief dan ger consists in the fact that it may cause atrophy of the muscles resulting from mactivity which further lessens the strength of the spinal column Atten tion should be given to the improvement of the general health and to local treatment by massage electricity etc Gymnastics should be used with care For the correction of the present deformities mechanical traction and pressure are aids They may be used in the form of manual redressments Gymnastics are of no use in correcting deformities A plaster cast is a great help but it has the dis advantage that the strength of the sp nal column suffers during its use Any correction cure carries with it the danger that although the primary result may be good the deformity may recur later and the final end result may be much worse than the original deformity Late rachitis is not a genuine rachitis It is a disease of which the true nature is not yet known and in this fact lies the weakness of the entire therapy of scoliosi

JANSEN has for some years made use of a plaster bed in a side position in which the principal curve usually the dorsal curve—is made to rest upon a convex surface and to deflect to the other side

The plaster bed in side position should complete the treatment by plaster jackets and gromastics but not replace these methods. It has shown uself-sery useful for children. The Ittle children are made to he in it by day and night for some cronths and the older ones either only during the night oduring then gight of the day. F. G. Dyas

Ollerenshaw R. Sacroccocygeal Tumors A n S rg Ph la 1913 l u 584 By 5 rg Gyne, & Olsa

Ollerenshaw classifies congenital tumors peculiar to the sacrococcygeal region and taking their origin from the transitory organs of the caudal end of the embryo into four chief groups (1) Caudal appendages (2) dermoid cysts (3) mixed tumors (teratemata) (4) foctal inclusions

He reports an interesting case of the third variety wherein this growth was about the size of a child's head and prior to birth was thought by the mother to be a second fetal head

The tumor was attasted in the sacrococygend region, apparently exparing the glitted muscles of the two ades displacing the ania forward with out interfering with mixturnoor defection it was covered by tense skin and consisted of multilocular cysts and a solid portion. When the child was several weeks old the growth was successfully removed by excision.

I aw A A: Ventral Tumors of the Sacrum
S g G; & & Ob! 1913 X13 340
By Surg Gynec & Obst

Embry ological study of the caudal end of the spanal awa explans these growths Early in embryone life the entoderm forms the caudal intestine canal dorsals and choral dorsals the mesoderm the connective tissue muscles, vertebre and blood vessels and the ectoderm the primitive streak the medullary tube and its vestiges. The central canal of the spinal cord and the primitive alimentary canal are in communication through the so called neutratience canal which is later obliteration.

When the proctodeum invaginates to form part of the cloacal chamber it meets the gut above the neu renteric canal For a time a part of the gut remains behind the assistant part of the gut remains behind the assistant part of the gut re-

rut This also becomes obliterated later

These misplaced tustic anlages are susceptible to local disturbances of development and according to Middledorf to tumor formation. There are many theories as to the cause of these tumors It is generally accepted that the simpler dermoids may arise from monogerminal tissue implantation more complex teratomas and mixed tumors how ever generally show evidences of all three fortal layers Many observers believe the tumors are due to prohferation of the remnants of the neurenteric canal the meduliary canal and the hind gut in associat on with ectodermal and mesodermal inclu Many find it difficult to explain by the monogerminal theory some of the complex tera toids where an entire limb an eye a bronchus rudiments of vertebræ intestine or liver may be demonstrated These tumors have given birth to the bigerminal theory according to which such a tumor represents an incomplete monstrosity or twin a parasite engrafted upon its autosite or host in fact a suppressed feetus

The sacrococygeal tumors vary grestly both midwidually, and morphologically, and show great diversity of tasue. They have been designated histological poppourn. A preponderance of one time of the state of the stat

Reports of these tumors complicating pregnancy are ery rare and in the literature the writer finds no case like the one which prompted his paper

A gal of sixteen pregnant at full term had been in active labor for 24 hours A pelvic tumor practically filled the tire pelvis and mechanically prevented delivery Accordingly a carsarean section was performed. The uterus was delivered through the abdominal wound before it was opened. An

as I tant by gra ping the Hood vessels on either ide prevented hamourh ge white the uteru was in cised

The chill and placenta were removed. Then a the tumor was found to be internately attached to the rectum vagina and sacrum and as it could not be removed from above a panhy terectomy was performe! The nother misle a normal reco ery and the chill be el.

Fire weeks later a Mayo-kra ke ear sure was made removing the sacroum and coctya below the second I ramen of the former. The main tumor and a smaller attached growth out diff cults or harmorthy. The mother again

made a normal recovery.

A detailed report of the tumor was made by If R Roberst in associate professor of pathol as and butterology in the Laberstip of Manerosta life concludes that nest of end sponce off groung in their maner of growth and appearance. There of horm maner of growth and appearance there of the maner of growth and appearance there of the transition of the state of

eral chreateristics. That the fumor frang fr m some m placed remnants fth terminal ports in of the resural tube seems a logical conclusion. F ritions of it devel ped at no mal fract problectation and showed sgin of malignant change. Other portions in a impier fact manner reproduced the adult type of n rie treasure.

Murphy J B Post Sacral Derm Id S & Cl J B M ply 1915 is V 4 By S re Gy et & Obst

The pain of a mile from the troop care before half a mill elevated by poor mo with the san to the fit of the ann. It was very partial to work, a breat it operated as I downards all of our milling put V i is formed an inferent as or time if no desharpe. If was operated in unsuccessfully in Okt her test. The is use well as deshrings. In Firmar in oil, let he another above, vithe luttech and two most to be left of the annet. There above the was till a cind the companies of the control of the control

In theil also getted lines o masm I directly over the lection felts dermoid pass groome if of the fittle going through the sin uperhait and deep fact in the sac The sac mas lined by a gravulate to uperhait to uperhait then the unenthe there was nother tracklesid g firm to

The secremo ed the w und wa closed first w the solkwo mg t suture t mmol kne the tisses. The to of the most unpleasant place in it an t m to get a h along because of the motio of the th h V rubber t is d at was placed from the upper ngle of the wound do n and out through the lo rangle The u ual alcohol dre ing (r is a per cent phenol) was applied

The important factor in such cases is h d firms tall dugin is in in legistic analysis call facts in an of a remnant of the resurence ca all are commonly treated by opening and dringer by curettement by cast in it in 1 v load ne frective, at all of whi har et affectual. There are no lined at he of the late of the cases are lined at he of the late of the

Heal g progressed better than we expected and the patient left in four week with the wound completely healed

Murphy J B Laminect my for Aneuti mal Sarcoma S z U J R Umpk 19 3 k \ 4. By arg C nec 4 Ost.

The patient a m no d fo showed almost complete in veries paralysis, occurring sit ideally with a hi tory of pain. The shargerm show d a tumor 2 inches in d ameter clear cut on the night side of the parall column. The pan are ded down against the area of the verticles for a south of a square the parall column—that; it had come through from a from the pall column—that; it had come through from a from the parall column—that; it had come through from a from the parall column—that; it had come through from a from the parall column—that; it had come through from a from the parall column—that; it had come through from a from the parallel column—that; it had come through from a from the parallel column—that; it had come through from a from the parallel column—that; it had come through from a from the parallel column —that; it had come through from a from the parallel column —that; it had considered the parallel colu

In orteoma usually takes its origin in the bodies f the vert bras. Octooms in the location is not comm in and it rarely ever compresses the cord. When it loca do so the compress in occurs very

al als not per luci g the symptoms noted in this se bef re many mo the or a nyears. Then acute infection mu t be n 1 red such as acute osteomy little with a granuloma or an abuses press g by k toward the spine If this may had been an but the lift whome in the highest a an arr f rar faction and not sol bifertion a th are showed I hnococrus cysts and act n m co also would how raref ction I bone leso c mpa t ough to g ve a shado a d « this e i found nly occasionally in the metaphy i f the knee th to the slow ossile mg treeses that take pla e n the halt of the long bones the res it f f ction the t are acts to over period of 1 rs Of th th s man had no There is tory i trauma no lace h t rv nothig that wold we mer m in that nor tuo of the rta we sold crited in the skingram Occa mills a ri m in this location causes an bsorpts n f bon an it all compresses the cord urismal serrom could develop a rapidly

such | to | uld gre rarefaction ad not a while thom h neuromal sarrow should gre asks graphil petur milite that I an ancurate the peratro the great property is a sarrows protrud greater his set has deighth dorsal vertebre, it was probably a little below the center point of the elevation. There was profuse flowing of blood as from an artery this was controlled by pressure. None of the laminse or spinous processes were removed.

A microscopic section made of a spoonful of tissue removed at operation confirmed the clinical diagnosis

of aneumani sarroma Primary wound healing followed withno enlargement of the tumor backward A shangram taken 13 weeks after operation showed no maternal change in the size of the tumor. The patient has been getting Coley serum and X ray treatment without avail and at the time of the report fatal termination was close at hand

# SURGERY OF THE NERVOUS SYSTEM

Leriche, R and Dafourt P Four Cases of Stretching of the Solar Plexus for the Castric Crases of Tabes (Quatre observations d elongation du plerus solare pour crass gastraques du tabes) Lyos ckr. 9 3 x . 5 By J umal de Ch rurge

Leriche has studied the surgical treatment of the gastric crises of tabes for several years and tried on four patients the stretching of the solar plexus proposed a long time ago by Jaboulay. The operation is simple and without danger and the four patients recovered uneventfully but at the end of a

few weeks the crises reappeared as frequently and as violently as before. These negative results confirm those recently published by Delbet and Mocquot

A bnef résumé of the four cases as described by Lenche abous that in addition to the stretching of the solar plems Ferster s section of the posterior roots and Franke s operation of detaching various intercostal nerves were performed with scarcely any success In bnef this surgery for the gastric crises of tabes is extremely disappointing.

LENORMANT

### MISCELLANEOUS

CLINICAL ENTITIES — TUMORS ULCERS
ABSCESSES, ETC

Carrel A Contribution to the Study of the Mechanism of the Growth of Connective T saue J E p Med 19.3 vm 8.3 vm 8.7 Surg Gynec & Obst

Carrel has already shown that connective tissue can be preserved for an indefinite time in vitro in a state of active life. In the present study he has attempted to ascertain some of the relations which exist between the tissues and their medium.

The experiments were made with strains of connective tissue derived from embyonic or adultchickens. It was found that when the tissue is cultivated for a certain time in a given medium which has been repeatedly changed a definite rilation arises between the rate of growth and the composition of the medium. The rate can be accretized or retarded by the addition to the mediumchickens of the straining substances. The rate of proliferation of extenting substances. The rate of proliferation of extensing substances. The rate of proliferation of extension and the straining of the connective tissue taken from an eight day-old emtryo. It appears that time has no effect on the tussue solated from the organism and preserved by means of the tchanque described. J F Convectini.

Friedman J C and Hamburger W W Value of Edestin and Peptone in Diagnosis of Cancer of the Stomach A k Internal Med 9 3 m, N 3 By Surg Gynec & Obst

Neubauer and Fischer in 1909 proposed the use of glycyltryptophan as a reagent for the estimation of peptolytic activity and applied it to the diagnosis of carcinoma of the stomach. The test consisted in mixing glycyltryptophan with a portion of the fil tered gastric juice obtained after the usual test break fast incubating for 24 hours and then testing with bromin vapor for the rose violet color of free trypto phan Their conclusions were as follows (1) There exists in carcinomatous stomach contents a ferment which contrary to pepsin will split glycyltrypto-(2) This ferment is destroyed by an acidity of 36 per cent HC (3) The presence of this fer ment may be of diagnostic value. Their report was accepted with widely divergent criticism Friedman and Hamburger have used the pentone quantitative method and have added the use of edestin as a means of controlling the most frequent source of error proteolytic cleavage

One of the most frequent critisms of the blochemical tests for cancer of the stomach is the fact that the gastine contents of normal individuals as well as of non cancerous patients under certain conditions split glycyltryptophan and other polypeptids. Although several suthors have defined the sources of error in these tests and have suggested var ous modifications to control them no one so var ous modifications to control them no one substate to control and rule out the cleavage due to non cancerous ferments. The authors discuss first the probable sources of error second submit a method for the control of the most frequent error proteolytic cleavage third report a sense of exists in which this method has been used. Abdehalden believed that the ferment derived from cancer cells belonged to the general group of ereptiess ferments

capable of plitting polypeptids and peptiones but incapable of attacking nati e protein Agenetifeits has been noted on the part of this career-densed ferment so far as the cleavage of polymer tiels and peptone is concerned. Therefore it is to be em pha ized that these tests based on peptolytic cleav age are specific only in so far as the creptase of any given gastr c contents can be shown to be denied from the cancer traue itself To do so it is e sential to rule out erer tase from non-exercitous sources as follows

(a) The emptace (erepsia) of regurgitated duode nal contents (succus entencu )

(b) Serum ereptase from I amorthige into the stomach an I from tran udation of erep'ase-contain ing fluids into the storrach (c) The e ereptace from I reaking d wn of cells

of the gastric tructer

r les long laws lo reston f (b) In addition proteam capabl o poptolytic cleav age as well a protect to cles age mu the identi-ned and controlled if present

(a) Trypola of regurgitated pancreatic i lee

(b) Protesee of bartens and I whorstes - mostle

from swallowed sales Fir m a general unity of these several sources of error it w s con l red for reason to be d seu sed later that the second group the pr traves of pan creatic juice (tryy n) and saliva (leukocytes and bacteria) w remost frequently active. The authors believed therefore that if the proteolyte, cleavage could be controlled they would materially increase the reliability of the method in q tion | Kler | Kl

Ohrl and Schitter helm a 1 others cort r led subsequently that the bile to the tradequat to ex-On the bal of the town with clai trym Frieden n and Hamburger agree with those holding that a negative ble test does not of itself exclude trypain Warfield and kochla r fee called atten tion to the fact that sale a un let certain cor tions is capable of hydrolyzing givey lity prophan and other di and tripepiki belie ing such action t be due to a hitherto undescribed salavary f resent authors state that the n ethod about to be described for the control of parcreatic trap in serves equiliwell for sallyary leukoprotease thereby duen at a for purposes of I nical diagr sus the problem of the origin of the proteolysis. The use of the vegetable Jobi ng as a true native prot in subject to cleavage by proteol tie ferments only thereby serving as a substrat for diff rentiating cleavage d e to pentolytic ensyries. The a thors describe in detail the method (4) Control and estimation of protecty tie cleavage (proteolys s) and (b) estimation of pep-

tolytic cl avage (pept lys )

Orly those cases are included in which the disgnoa was controlled by the operative or aut pay find ings or in which the chinical picture was so descrite as practically to exclude errors in its interprets tion.

This report comprises the results of tained from 17 ca es divided as follows

20

(a) Cancer of the stomach (b) Chronic ulcer of the stomuch

(c) Chronic i farimation of g b ard panciers

(d) Ol I gastro enterostomy cases (e) Control rases

### T tal

The authors present complete tables a h the: analysis and summarise as todows

I beester is a valuable aid in correcting the proteolytic cleavag of stomach con erts

3. The proteolytic cleasage of at much con er e It due in most i tances to regargitated trapes a'though leukes yies and bacter a per bably play some rele

3 By the use of ede ter with pept r It is possible to materially reduce the errors in non-caprerous and rormal cases fue to trypsin leukocytes and lacteria 4 The erl s in proptone method por energies of

value in the diagnosis of cancer of the stomach and is of come terable service in the differential diagnosis between berign a d mal gra t anacidity

5 High pept lysis with low proteolysis weaks ! carci oma high peptolysis with his proved : agai at canamora

6 The edes in persone method as in other labor rat to tests a of practical alce only when taken it conjunction with the nital clinical and laboratory hn'irgs Bra bn Tas er Mick en

Goeta O Multipl Pelm ry Carcinomata il'e merk cen aber M high in presire C nate re i Anhin ye n mora kall in deer bem Curci Davids Zul / A h WAF A A 1919 i i mramb

The a tops f 53 I man sh ed a t ma h categorie and a coronatous pol p of the in estire four carcini maza of the discending color and good feeur a accordence of the rectum, a scirrhou carcinoma f the right lobe f the pretate i cancen metas ases in the L et His t logic I crarur to a showed that all these e cept odes in the k which were r ctas ages from th investinal careir mat were primary turrors.

Henderson \ The Pathology of Shock T I breat Long M. J. Lond 17 3 Aug

Fe less A

Shock in the broad sense in which the term i often used a not a w g lear-cut desorder but a group f con I tron which diff r one from another (undarrental) If wever wing t th fact that these arous combine a resemble one an ther superticially they are generally confused. The first problem to define and that guish each one The term hock originally meant concussion an invisible vibration through all the ter ex and organs which inhib ted the f ctional ctivaty Contusions involved local shock. Nowaday at ascerpted as a matter of course that apart is rom hemorrhage and infection the effects of an injury such as the crushing of a foot are transmitted not by an invasible vibration, through all tissues, but through the nervous system. To state this is not to gave a theory of shock but merely to admit the basis from which any theory must start.

The following are some of the modes of sudden death referred to as shock all are easily dis tunguished from shock as a state of depression (r) Electric shock Electric currents of high potential may throw the heart into fibrillation or paralyze the respiratory center (2) Anaphylactic shock Death from an injection of a foreign protein in a sensitized subject results from constriction of the bronchi stiffening of the myocardium or abolition of vascular tonus (3) Shock from grief or fear Simultaneous stimulation of all cardiac nerves may produce cardiac fibrillation and immediate death (a) Chloroform shock Mental excitement and physical suffering increase the secretion of adrenalin Adrenalin plus light chloroform angesthesia produces cardiac fibrillation. Levy has proved that many fatalities have occurred in this way

The following are some of the states of depression termed shock. For the gynecologist shock is parexidence the result of hemorrhage. For some surgeous its the state of depression following intense suffering even without loss of blood. For other surgeous it is a general depression following prologied operations without considerable loss of blood or suffering. For some physiologists it is something alan to one or another of the foregoing. For other physiologists it is the condition induced by high section of the spinal cord. Among the foregoing there are probably at least three more or less one of the spinal cord.

distinct conditions According to the theory now prevalent shock is a state of vasomotor failure essentially a prolonged syncope This idea originated in the celebrated Klonfversuch of Goltz On slapping a frog on the abdomen it was noted that the heart beat became feeble and the abdominal blood vessels relaxed From this has come the explanation undoubtedly correct that syncope is reflex inhibition. Most modern investigators, particularly Crile have assumed a similar explanation for shock. How ever as a matter of fact such an explanation does not explain the failure of respiration the loss of tonus the reflexes in muscles atonicity of the intest ne etc. which also occur in shock and explains the circulatory disturbance only partially Crile found (and the experience of the writer verifies the fact) that in experiments on shock oo per cent of the subjects die from failure of respiration while the circulation is still in fair condition

Clinical cases and animal experiments carried out by the writer show that intense suffering causes excessive respiration and may be followed by failure of respiration from acapias Experiments were quoted in which the atomicity of the intestines and

the tympamites following exposure and handling were overcome by means of CO<sub>2</sub>. A form of shock identical in many respects with that seen chincially may be induced by acapnia. However it is not claimed that this is by any means the only condition that leads to climical shock.

The fundamental error in most modern discussions of shock lies in confusing it with the vasionator and other functional depressions seen in the purely experimental spinal shock induced by high section of the cord. In reality as the writer a experiments show the failure of the circulation in surgical shock usually is essentially like that after extensive homorrhage and unlike a prolonged syncopic or visionator failure. Present knowledge indicates that shock as seen clinically depends upon a decreased blood volume. Solution of the pathological and surgical problems of shock requires first the solution of the as yet ill defined physiological problem. What are the conditions which normally regulate the distribution of fluid between the blood and the tissue.

#### Broca A Surgery of Childhood (Chururge infantile) Paris G Stembell, 1913 By Journal de Chirurgie.

This book presents the results of twenty years practice of surgery first at the lod Trousseau Hospi tal and later at the Hospital for Sick Children which indicates an extremely abundant material Through out his career Broca had in view the double purpose of being a surgeon and an educator Hes stited for his work as a teacher which was always of suprementerest to him by the clearness of his mind the precision of his language his great learning and rare separal culture.

All these qualities show in the book in which he has brought together all that he has learned in his practice for the benefit of students and surgeous The whole field of children's surgery is presented. Diagnosis and treatment hold first place but they would be mere empty formulas if not based on a knowledge of pathogenesis and pathological sant only and on laboratory study which is of so much importance in medicine to day. The author has made use of all these branches of pathology in his treatment so that the book is a complete treatise on the surgical pathology of childhood

Diseases of the bones and joints of course take first rank as they are the most characteristic conditions in this special pathology. They take up almost two thirds of the volume. The rest is devoted to a study of the diseases of the different organisms and regions. All the surpricil diseases peculiary to the control of the control of

The illustrations are of prime importance in a book on surgery which is an objective science and in a book designed for teaching and the author has given his attention to this feature and in a characteristic personal way. There are no plates no reproductions of photographs or radiographs nothing but diagramments which the author says may be as erect and muce about them a photograph and as they are so much the produce they may be used to any extent the produce of the illustrations in this work prove the uncodence of the illustrations in this work prove the uncodence of the they have the ment of being derived almost catterly from the author's owo practice.

A detailed analysis of a work of the sort is not possible. It is sufficient to say that it is the most complete and original treatise we have on the surgery of childhood.

LEGISLAY

### SERA VACCINES, AND FERMENTS

Shatruck C C and Whittemore W S: Conococcus actine and Glycerine Fatracts of the Conoccus in the Disghoris of Conortheal infections B and B-5 J 1915 that 317 By Sun Cynec & Obst

The authors ducuss the quertion of the specificity of the specificity of the specificity and distributions of the specificity of the specific states and distribution of the specific s

It is atated that when a vaccine has undergone satisfysh to an unknown degree when changes in it may still be taking place and when prehaps the precular proteins of the ormand organism may have been destroyed or modified the results of the day notice tests and of treatment by such a vaccine may well prove surveilishle and if a specific reaction should occur it may be masked by the effects of irritating or mon-specific toxic products of desintegration of the batteria.

These suggestions industs that more knowledge is needed in regrui to the changes that take place in genecoccus vaccine and raise the hope that more satisfactory results may follow improved methods

of preparing the sactive.

The preparing the sactive property of the top P. The threshold but did not obtain satisfactory results. Discense extracts and a control were prepared and inoculations made by the top Property of the property of

1 The concentrated vaccine should no superior ity for diagnostic tests

2 In generational and in control cases it produced a local lesson like that of a chemical further furth year may have been a factor in producing the supposedly arritating properties of the vaccine changes in the vaccine may have prevented it from producing a specific reaction and the unstanticatory therapeutic effects of genocorces vaccine.

may perhaps be traceable to autolysis 3. Glyrerne extracts of the gonococcus inoca 1 ated by the method of von Pirquet caused, in a law cases the formation of peculiar papies which may have represented a specific reaction. Most of the cases showed no definite reaction.

EDWARD L. CORSELL.

Romatowsky M Treatment of Gonordoni Affections with Gonoccus Vaccine Gar Fige der Behandung genorchüscher Erkrukunges mit Gonokokkenvactus! There Randicks, 1839 14 437 By Zentalb I d ges Chr u I Gengeb

The author obtained good results from varine treatment in a case of vulsorsganuts in generates of the enadidymus joints prostate and Corpergiand. In chronic genorithesa the treatment was utterly meffective. The genecocan never damptested after pure vaccine therapy but local treatment was also necessary in order to get ind of them entirely the control.

### BLOOD AND LYMPH VESSELS

Techeral chowski E: Suturing the Vessels in the Treatment of Ancurism (Zur von Frage der Anwendung der Gelismahlt bei der Behandlung der Ancuramen) Desitele Ettele f Chr. 1913 czzon, By Zentralb f d ger Chr. un Grengeb

A description and extracting of the different operations for aneutrum show that all the old methods completely cut off urculation in the region and exisgingence in z a pare cent of the cases or even if the collateral circulation in free enough to personal such as strophy and neckman. Frieth in the examnation of ten cases after one to eight years found only four that were enturely a self. Hunter's lightess of the chief turbutary vessels above the aneutron great the nour results more at raiss of the great great the nour results more at raiss of the great which is no unportant in such operations. The statistics for gauginess vary from 10 z 10 x 9 per

cent The result of the older Antiluse operation which consists in timporting the circ of the seermin, it consists in timporting the circ of the seermin, it consists in timporting the circ of the Metas obliterating operation, in which the tributary vessels are closed by sutures from within the sneurons and the sixelist is obthereated by burned settings. The operation is unipowed upon, however the "reconstruction". The first of these consists in the suture of the immen of the vessel from the opened anguntan is the second the sex of list for sutured over a catheter.

which is removed after the lumen of the vessel is restored. Both operations are intended to keep the humen of vessels pattent and reduce the danger of necross to a minimum but the presence of the decased vessel wall tends to bring about recurrences. The lateral suture which has recently been much used is practically the same only that the aneunsmal as is extrapted. Both operations are suited for arterio-venous aneursmas and especially for sacculat ed aneursms with a small at this opening.

The author has found 31 cases of lateral suture in the literature II in arterial and 20 in arterio venous aneurism In two cases there was gangrene but from causes for which the operation could not be blamedarterio sclerosis and gaseous phlegmon Death was not due directly to the operation in any case and there were no recurrences. The ideal operation is Lexer's method of circular suture of the vessel with resection of the diseased portion. Of the three methods of uniting the vessel Murphy's Pavr's and Carrel Stich s the author prefers the latter He has used it twenty five times on animals with success in 72 per cent of the cases and he also used it successfully on a human subject in the case of a man with arterio venous aneurism caused by a shot in the thigh which case is reported in detail in the original article

Tschermachowski prefers the continuous circular suture and uses a forceps of his own with a controll able screw arrangement. The danger of recurrence is slight as Sofoterow has found that the pressure in the sutured vessels is 180-100 mm. The success of the suture depends on the technique which is not at all simple and the most careful asensis. In 13 cases from the literature 6 of arterio venous and 7 of arterial aneurism, there was no case of gangrene Death occurred in one case, and patency of the lumen in 53 8 per cent of the cases Autoplastic transplantation of eins can be done only where there are large defects to be supplied but its value has not yet been decided upon Heteroplastic transplantation is never successful If an attempt at vessel suture would endanger the life of the patient or it is not possible for technical reasons the best procedure is Matas obliterating operation older method of ligating the v ssel and extirpating the aneurism are to be used only in smaller vessels the ligation of which does not injure the nutrit on of the part

Nasuroff W M Injuries of the Thoracic Duct in Operation on the Left Supraclavicula Reg on (Ober Verletungen des Ductus thoracces bet Operationes in de Regio supraclavicularis sinis tra) Abb d chr Kim Prof W A Oppd, Jird Abad St Petersh 9 3 1 5 greatible 1 d ges Chir Grenzgeb

Th author deals w th secondary injuries in operations at the base of the neck. In the case of a woman thirty three years of age who was operated for a metastas in the gls ds following amputation of the breast the thoracie duct was injuried in clean ing out the left supraclavicular fossa. This injury was not noticed at first but was later evidenced by the flow of chyle A milky fluid could be seen flow ing from a small opening at the aper of the somewhat dilated healing wound The opening was cautenzed the wound tamponed and after three weeks the fistula closed and the wound healed The author further tabulates sixty two cases reported in the literature making a total of sixty three cases The more occurred during the extirpation of tuber culous cervical glands twenty four times of carcinomatous glands twenty times of sarcomata and lymphomata eleven times of mahanant strumas three times of ancurysms of the left subclavian artery once of leukæmic glands once of hæmor rhagic cost of the neck once and in operations for traumatic injuries of the neck twice Seventy per cent therefore occurred during gland extirnations In general prognosis is good and healing finally occurs after prolonged chylorrhoga Tamponade and ligation must be considered in the treatment The latter leads to a cure the more rapidly Suture to or transplantation into a vein after complete division of the duct must be mentioned Deanesli (Lancet 1903) reported a successful cure Schack

### SURGICAL THERAPEUTICS

Hahl C The Influence of Piruitrin upon Blood Pressure after Hemorrhage (Der Linfuss des Frustrins aufden Birduch and Blutungen) F sika lok toll k Haudi Heis agtors 913 lv 218 By Z trabli d ges Gynak Geburths 3 d Grengreb

On the basis of 23 observed cases the author comes to the conclusion that an intramuscular injection of 5 to 10 ccm of hypophysial extract cannot in crease the blood pressure of a woman who has lost an average of 1 aro occ m duning a confinement A rapid increase however occursif in addition normalisuling mission—bere in the form of enemas—realizes the

decreased fluid in the vascular system

Biographers

Caspary 1 Physico Chem cal Treatment of Cancer 2 Vaccine and Serum Treatment of Cancer ( De An endung de physikalsch chemischen Behandlung 2 V centrons und Serumtherspiede Geschwildte) Ust chen med li chnicht 9 3 1, 907

9 3 1 907
By Zentraibl f d ges Gyn k u Geburtsh s d Grenzgeb
At the International Conference for Cancer Re

search in Brussels in 1933 Caspany of Berlin discussed the use of physico-chemical means in the treatment of cancer. He claims that they may either cause an increa e in the autolytic ferments of the body or lim! the exuberant growth of the tumor and that the first is a local effect the latter a general one. The latter he says is to be preferred there is the danger however that the tumor must may be rendered fluid and the organism injured by absorption of it unless as in the case of cancer of the uterus it can be discharged externally

He fur
ther states that since metastases cannot be affected
by radiation other internal remedies must be used
for their destruction and that with chemical means
alone no declave curs have been obtained so they
abould always be used in conjunction with radium
treatment

In the discu sion that followed, Baset of Brus els recommended radium treatment for external tumors except on the tongue the penis the parotid gland and the abdorren Freund of Vienna discussed the difference in serum of normal blood and that of cancer patients The first destroys cancer cells the latter does not and it even contains an albumin body that protects the cancer and furthers its excessive growth It arises from catabolic processes in the intestine of cancer patients Immunication however cannot be attained by its use at least in hores Wermer of Heidelberg did not believe physical therapy was of great importance he recom mended radium treatment only for superficial epithe h ma, for sarcoms he preferred rontgen rays. The rest of the participants in the d scussion were almost all convenced of the value of treatment by ta I um but an exact judgment as to its value cannot be pronounced.

Oler Gent and Coley of New York had used injections of streptococci in metastases the latter with good resul a Matapan of Brussels regarded the injection of streptococcus tosin as a valuable admyant to other methods of treatment Witzel of Dusseldorf believed injections of toxins and chemical rieans should be used in conjunction with operative treatment l'inlus of Berlin treated three patients with an autogenous vaccine. One of the patients is still living but has a recurrence Blumenthal of Ber'in and Daels of Ghent had good results from vaccination with serum from the same kind f tumor from other patients and vet better with serum from the patient's own turner To shold tracerus ston of bacteria he kept the material sta ding in the incubator for from two to three days

m two to three dig.

#### ELECTROLOGY

Asguard V: A Method for Remort 2 the Di coloration from Stained Röntgenograms &m (bart Redg sel 1913 2 B. Sorg Grace & Olat

This is a valuable point in technique for the method does not soften nor reduce the d naity of the negative. The formula con rate of two solutions of

Solution A One owner of saturated solution of potassium permangarate in eight ounces of water solution B One owner of potassium metabisulphate in eight ounces of water

an eight dunker of his hand the negative and while Atter thoroughly wa hing the negative and while it is still moist immerse the plate in Solution V for foot of five minutes agitating the solution constant by by rocking the tray. Then remove the plate and runse it well. On rem ving the plate and runsing it it will be found stained the characteristic color of permanganate but after being left in Soluton 8 from two to three minutes and again mosed, it who be found perfectly clear. It is very important that the surface of the plate after being removed into Solution A should be rubbed with a trif of coundupped in water before it is placed in Solution 8, to be sure that all the chemicals are removed from the film otherwise some valin may be left.

G & PEARLES

Pirie A H: A Sliding Diaphragm for Improving the Q ality of Skingraphs. Am Quot Emgrael q13 18 By Sung Gyar, & Obs

The importance of diaphragmang in reatgenor raphy is well established. Prine's moving diaphragm enables the reintgerologist to cover large areas and still retain the effect of a small diaphragm. The principle con 1sts in moving a rectargular.

diaphragm over the top of another rectangular diaphragm each being placed at right angles to the oth r He does not describe the details of his construction

He does not describe the details of his construction nor of the motive power but in the article be gives a diagram illustrating the principle

G E Prunts.

Cabot S: \ \text{ \te\text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \t

routernoscopy and routeraberacy of taing he apparatus which is capable of giving predetermined and undustinating voltage for the energy supply to Röntgen tubes. It is paper consists mainly of a re tatement of current theories in a more intelligible way together with the presentation of certals original theories of his own.

During the pa t three years be has made quantits in measurements of electrical energy supplied by various forms of Y ray apparatus and has araly the quantities and quantities of the rays produced. The results of this work seem to offer an explanation of the reason why, different forms of Y ray and why some are apecuall suitable for a given purpose. The meet ure of quality used in Calout's apparatus.

The mea ure of quality used in Cabot's experiments was the Renost penetrometer Besides the usual form of \tay generating apparatus, such as costs and transformers the autho has constructed an apparatus which has the buluty to maintain an unfructuating voltage on the tube terminuts

Dun g the past two years quantitative measurements have been made at the Massachusetts Gen eral Hospital by Dodd The results of these

measurements were as follows

1 Confirmation of Thompson s law Each unit of thickness penetrated absorbs a fixed percentage of the energy transmitted to it and this percentage is dependent upon the penetration of the ray and the nature of the absorbing medium 2 The thickness of dissipating medium pen etrated rays which absorbed a fixed percentage of energy of V light was found to be directly propor tional to the voltage maintained on the tube ter musals

3 If tungsten or platinum targets are used the voltage maintained on the tube terminals may be read from the Benoist gauge. Thus 3 Benoist was produced by 30 coo volts 5 Benoist by 30,000 etc. 4. The absorption of energy at the various degrees.

of penetration in common use as it penetrated tissue was measured and a set of curves prepared showing graphically the distribution of energy absorption

It is hoped that by means of these curves more accurate knowledge will be obtained of the dosage reaching a diseased part located below the surface of the shi in therapeutic word as well as in ront genography and rontgenoscopy. The curves were plotted on data obtained by watching areas on photographic plates which were equally darkened by exposure. This method has a possible error of so per cent. It is proposed to check them by an electrometer.

When a tube is actuated by a transformer it emits rays of all degrees of penetration. The relative proportion in which rays of the different penetrations are mixed is determined by the resist ance characteristics of the tube which change from day to day Current is flowing through the tube about two thirds of the total time and the maximum value is about two to three times that indicated by the millameter. In cases in which a tube is en ergized by an induction coil we have also a mixture of penetrations supplying energy to the tubes in These pulses are pulses of very great intensity separated from each other by relati elv lo g in tervals of time The maximum current in the tube is ten to fifty times that shown on the millameter For this reason the same tube banks up a much greater voltage than it does on a transformer The resultant penetration produced with a given number of milhamperes will therefore always be greater with a coil than with a transformer

If a tube is energized by a machine giving unfluctuating voltages the registered current is the

maximum current amplitude

The results of the analytical work were as follows Risingenography The apparatus should be able to maintain voltages from 30 000 to 80 000 as desired and be able to dissipate 10 km of energy in the tube It should have a quick acting kilovolt ometer and milliameter.

Table of tube voltages 30-35 h. for hand and chest rontgeongraphs on thin subjects 32-30 kv for general work on small parts guving great con trast 40-45 kv for bone work in parts less than two inches the ck for chest work in parts less than two inches the ck for chest work in 200 pound parte ts and for general tissue detail u ing intensifying screens 4, 90 kv for bone work of extremities and chests of 150 pound patients 50-50 kv for kindey and bismuth work in light subjects also for extremities 60-50 kv stems as shown in heavier extremities 60-50 kv stems as shown in heavier

patients ,o-80 kv for hips frontal sinuses, and bismuth work plates show considerable loss of con

trast

The most important factor in getting the best results so know accurately the penetration during the capeaure. With Cabots apparatus this can be determined by meter which is much simpler than by any other known method. Cabot s apparatus is in the nature of a direct current rotation converter having a variable ratio of transformation transforming 200 volts direct or alternating current to high potential direct current having a fluctuation of 1½ per cent. This high potential can be adjusted at will form 30 to 100 ky and is capable of

supplying energy to the tube up to a rate of 15 kw
Ronigenoscopy Cabot s apparatus is so flexible
that it is readily possible to use the same tube for
rontgenoscopy and at any instant excite the tube

sufficiently for rontgenography

Ronigentheropy This branch of Röntgen work has been very much held back by lack of scientific means of knowing recording and reproducing the exact dosage especially in deep leated lessons Abhity to maintain non fluctuating voltage promises to do away with this uncertainty Already it has become possible to state the Saboreaud pastile doses in figures 1 e 3,400 milliampere seconds at to penetration Benot 14

To get as good results in deep therapy as we have in superficial it is only necessary for the tube maker to design a tube of higher puncturing voltage and proper resistance characteristics and for the electrical engineer to supply a proper source of energy to actuate this tube Cabots apparatus gives promise of lediliding the latter condition

A H Homes

Op tz, F: Supplements to the X Ray Treat ment of Malignant Turnors (Randbemerkungen uber Unterst tzug und Ernstz der Strahlenbeh ad lung boartiger Geschwilst!) St Me ther p 913 5 By Zentralbil i d ges Char u Grenzgeb

That better results are obtained by combining several forms of treatment neither one of which may be sufficient in itself is Onitz a belief. So in the treatment of moperable carcinomata he gave potas sium iodide internally and powdered calomel over the ulcerating edges which had been scraped out with a sharp curette. This combined treatment prevented hemorrhage and suppuration for a long Internal administration of cholin caused temporary cessation of growth Experiments with combined cholin and \ ray treatment have not yet been finished It has been observed that lymph glands make carcinomatous cells inactive and that cancerous foci are surrounded by a zone of lymphocytes It would therefore seem desirable to create an artificial local or general lymphocytosis If a lack of salts in the diet favors the proliferation of epithelial cells the addition of silicates calcium or other salts would deserve consideration in the treat ment of carcinoma The author has given up at

tempts at serum treatment because truce he had serious results from anaphylactic shock FRANCESHEIM

Klenbörk R. Radiotherapy of M lignant Dis eases T Inc at Co & Med Lond. 9 3 Aug By Sur Cynec & Obst.

The ideal method of treating tumors is to destroy the pathological cells without producing injurious effects upon the neighboring healthy tissues and without causing hum to the organism. This end may be attained by the use of the rontgen ray and other imilar rats because of the exceeding sensi tiveness of pathological cells (selective action)

Röntgen and radium rays can remove mahemant turiors even very large ones provided these tumors are very radio-sensitive. Countless ca es of permanent cure have been recorded. If a tumor disappears quickly under the influence of irradia-tion it is not likely to recur

When surgical or radiotherapeutic methods offer the same chance of cure in a pixen case the latter should be preferred on humanitarian and cosmetic grounds The prospect of permanent cure following operation for carcinoma is rot any too great even when the tumor is considered quite operable Crerny says three fourths of the operated cases recur

The greatest progress in the technique of ront genotherapy has been made through the work of lerthes and Dessuer and their f llowers It is especially important to filter the rontgen rays through thick alaminum in the treatment of deepscated tumors, particularly when the slan is begin ning to show sensitiveness Reicher and Lenz make a prest advance by producing anemia of the skin with adrenalin making it much less ensuine to

the rays Lately it has been frequently tated that harm may result from rontgerotheraps of mahanant tu riors unless a proper technique is followed. It has been believed that small sontgen doses stimulate the growth of the tumor In realty however with a proper technique only a very small proportion of cases of mahgnart tumor are unfavorably in fluenced and in such cases more rapid growth of the tumor is due to the fact that in the presence of an acute inflammatory infiltration of the tissues in the ne, borhood of the tumor cells the rays stimulate the inflamed base upon which the tumor grows into still greater inflammation

The author protests vigorously against the behef that in malignant tumors small doces are uniformly or primarily irritation doses If small doses really can irritate it would at best be only restricted doves on circumscribed areas and practically TANKS T CASE

without significance

Mackee G M : Therapeutic Technique Ir Am

Rinig Ray See Boston, 19 3 Oct By Surg Gymec & Obst

The author discusses his subject under two headings first, the estimation of the quality and second the determination of the quantity of ray employed.

To estimate the quality of ray he uses the mile ampere meter the Bauer qualimeter and the Benoist radio-chronometer He actuates the tule with one milhampere of current and selects one which with this current will give a qualimeter reading of 8 to 9 and a radio-chronometric reading of \$ to 11 and maintain this vacuum for a consider time He advises the use of a hard ray for all

lesions To determine the quantity of ray he prefer the Holzknecht radiometer He does not doe his tube for quantity but measures the dosage of each

treatment with the pastille

He discu ses the effects of age heat light, and moisture upon the pastille and concludes that although it does not answer all theoretical remusments it is sufficiently accurate for all practical purposes, provided the user knows the sources of error has had expenence and is careful

To administer a dose he places the pastille upon the skin rather than half way between the anode and the skin His reasons are fully set forth in his article. As a basis of dosage he employs the dose table of H units as formulated by Holzknecht He reasons thus If 4 Holzknecht units of a Berout 6 ray (H4 B6) will produce an erythema of the skin of the face of an adult it will require a smaller dose of a B3 or a larger dose of a Bo to produce the same effect. Although Mackee is in favor of the massed dose he advises the inexperienced to employ a repeated small dose until a reliable technique is

required
In discussing the question of idiosyncrasy the author states that he has neither seen nor heard of a true case lie does not however deny its possible existence Hypersuscept bility does exist and is an

Important factor

Some portions of the body are more sensitive than others The face for example, is most sensitive and the scalp most resistant Children are more susceptible than aged persons and females and ble more susceptible than males and brunettes. Such disea es as my cosis fungoides, eczema, psonas.s and applications of chemical unitants such as tar mercury sulphur sodine and particularly chryson ohen cause a hypersensitiveness of the skin Hence the dose will depend upon the part of the body that is to be rayed the age and complexion of the patient the disease the quality of the ray and the

effect desired The author considers also the question of color blindness in connection with the reading of the pastille Those afflicted with color blindness who can detect slight differences of unit can use the pastille but those who cannot make such com parisons cannot do so. Every radiotherapist should

have his eyes examined for such a defect. In conclusion the author advises the use of the customary indirect methods of qualitative and quantitative measurements such as the working distance of the anode and the milhamperage of the current in the tube the direct method being added at first as a control but with experience gradually replacing the older indirect technique FRANCES C TURLEY

Roberts E. J : The Therapeutic Value of Second ary Rays Produced from Metals by the Action of Rontgen Rays Aust las M Ga att xxxxv By Surg Gynec & Obst

When ront en rays strike a metal the metal sends forth a secondary ray which is different from the rays it has received and varies in penetrating power according to the atomic weight of the metal exposed the greater the atomic weight the harder the ray The quality of the secondary ray depends upon the Lind of metal and not upon the rontgen rays used to excite that metal

Rays filtered through metals must not be mistaken for these secondary rays given off by the metal it self The filtrating rays can be distinguished from the secondary rays by the barrum platino cyanide screen the former causing fluorescence while the latter does not

The tube chosen to produce the incident ray should be medium hard and the metal should be thick enough to prevent filtration of this exciting

Silver with an atomic weight of 107 66 and copper with an atomic weight of 61 have been found in the author's experience to produce a secondary ray suitable for therapeutic purposes the silver ray being most efficient for deep skin lesions and the copper for superficial lesions

With these factors as a premise, the author carries out a lengthy course of experiments with secondary rays and concludes that epithelioma and kindred diseases may be treated successfully with these rays

instead of \ rays or radium His reasons for undertaking this work were the expense of radium the possibility of using a tube capable of radiographical work to excite the metals to secondary radiation and the fact that a given metal always produces a secondary ray of a con stant degree of penetration, while the radiation from

an \ ray tube is made up of rays of varying degrees of penetrating power which change further in quality with every alteration in the vacuum of the tube

Technique The patient is protected by a piece of smooth thin lead in which a hole of the required

size is cut to fully expose the lesion. Over this hole is suspended a wooden frame one meh in thickness and three inches square to which the metal is fastened In this way the metal is separated from the lesson about one inch The metal is three inches square and sufficiently thick to retard the filtration of the rays which excite it Conner should be from one sixth to one fourth of an mch thick and silver proportionately less The metals must be pure Both copper and zinc give off secondary ravs when excited separately but an alloy of these metals can not be excited to secondary radiation by X rays The author uses copper of 90 96 per cent purity the oa per cent of impurity being oxygen and a trace of silver The tube is placed four to six inches from the metal The exposures should be made daily and the treatment must be thorough

Twenty cases are reported Two were cases of tenia circinata each of which were treated with secondary rays from copper the first by eight sit tings of ten minutes each with a resulting Y ray dermatitis and cure of the disease and the second by six exposures with the same result

One was a case of cancroid of the ala nass of five vears duration. This was treated fir t unsuccessfully by the author with \ rays and later cured by secondary radiations from silver in six sittings of ten minutes each

In one case of generalized proma is a limited area. was treated with copper ray The disease disappeared from this area but remained in other areas that were treated by other methods Seven cases were cases of epithelioma A com

bination of X ray and silver ray was used in one case copper ray in two and silver ray in the other four In all but two a successful termination was ımphed

One case of lupus was treated with silver ray and at the date of the report had improved

Four cases of rodent ulter were treated success fully with the silver ray and one with the copper One case of warts treated with the silver ray was

treatment was stopped In one case of eczema squamosa silver ray effected

a cure after four applications

One case of tubercular di ease of the neck occurring in an abrasion was treated with the silver ray but the result is not stated

FRANCES C. TURKEY

# GYNECOLOGY

#### UTERUS

Roll tt H : Intra-uterine M liary Tuberculosia (Übe intra terine miliare Tuberkulose) Wien klisi Weknicke 19 3 xxvi 1274 By Zentralbi f d ges Gynik u Geburtsh s d Grenzgeb

The patient was a woman who developed an acute miliary tuberculosis during pregnancy and hore a full term child (51 cm 3600 g) which died 48 hours after birth of miliary tuberculosis. The mother died 18 days after the birth of the child This unusual occurrence proves that tuberculous may be congenital, and that even the generalization may occur in utero TORGYLER

Faure J L. Results of Abdominal Hysterectomy for Cancer of th Cervix (Traitement du cancer col de l'utérus par l'hystérectomie abdominale) Buil et mêm Soc de chi de Par 9 3 xxxx, có By Journal de Chrungse

Faure reports to cases in his hospital experience who survived their operation for periods ranging from one year and two months to seven years and seven months One patient operated on in Sep-tember 190 died two years later without local recurrence but with generalized cutsneous sar comatosis There was without doubt some relation between this and the oterine cancer A second patient operated on in January 1904 died seven years later of pulmonary emphysema without any trace of recurrence Another operated on in June 1904 was well two years and four months late but has since died the author has, however been unable to learn the exact date or cause of her death fourth operated on in May 1903, died eight years later but the exact cause of death was not known Of these four patients one was undoubtedly per manently cured of her cancer and there is a reason able doubt s to recurrence in the other cases The other six are in good health and completely cured one after eight years, one after ten three after eleven and one after more than fourteen

Another set of statistics relates to 24 cases, enough from which to draw conclusions of some value Of these 24 patients 2 o 8 33 per cent died from the operation Of 5 others or 20 85 per cent 3 died of recurrence within the first six months Another lived nearly two years dying of cerebral tumor The fifth lived two and one half years and died of a recurrence in the pleurs. Of 7 patients 7 83 per cent are at present well. Of these 4 have been operated on less than a year but there remain 13 who have been operated in for 19 months or longer so that their future is reasonably assured. Two were operated on 10 months ago one two years ago one two years and eight months one three

years and one month one three years and three months one three years and eight months one four years one, four years and three months one four years and seven months one, five years and four months, one five years and six months one six years and three months ago Several of these may still have recurrences, but Faure is more and more convinced with longer experience that they will be few in number

Leonard V N: On th Development of Malg mant Disease of the Carrical Stump After Supravaginal Hysterectomy A Surg Phila 1913 lvm 373 By Surg Grace & Obst.

From the gynecological clinic of the Johns Hop-Lins Hospital, the author first reports two cases of carcinoma of the cervical stump after hysterectoms He then gives a table in which is reviewed a list of 36 cases which have been more or less com pletely reported up to the present time Reference is made also to others mentioned in the literature but never completely reported. Leonard does not advocate giving up supravaginal amputation as an operative procedure

From representative European clinics Botsons collected 234 cases of subtotal hysterectomy with a primary mortality of 2 fr per cent and 400 cases of panhysterectomy m which the mortality was 6 6 per cent F ure found the stump almost always atrophied and regarded it as being in a state of epithelial inactivity decidedly unfavorable to the development of cancer Of the 36 cases in Leonard a table, it is probable that in at least 16 instances the presence of malignancy had not been detected at th time of operation Of these 36 cases 26 or 72 per cent were operated upon for итепре туотата

Considering only those cases in which the subsequent carcinoms was probably non-existent at the time of operation it is found that in 63 per cent of the cases the uterus had been removed for myomata Leonard, therefore argues that the question practically resolves itself into a study of the etiological relationship of invomata to cancer ad of the tech

mique to be used in removing the myomatous uterus Combining the statistics of Winter N ble and Cullen, the author show that of 3 786 cases of uterine myom ta 124 cases or slightly over 3 per cent showed either cervical or corporal make There are no reliable statistics f the absolute frequency of cancer of the uterns but to place t at 3 per cent would be absurd Leonard co cludes that my omata exert an influence incontestably favorable to the development of nierine carcinoma

Of 2 CL3 cases of cancer of the uterus 186 cases or 74 per cent were of the body whereas of 215 cases of uterine cancer associated with myomata 134 cases or 62 3 per cent were of the body. As regards the cervix Winter has reported 25 cases of cersical cancer occurring in 1 2 o ca es of uterine f broids about 2 per cent Several cases are referred to where cervical carcinoma had been found in the routine examination of the specimens after total hysterectomy for myomata. Leonard argues therefore in favor of a cupping out" of the cervix after supravaginal amputation as has been ad vocated by kelly as a routine procedure. The technique is simple and its advantages are that (1) the cervix is more easily closed over (2) a carcinomatous fixus deep in the cervix would be d scovered and (1) by the removal of a large amount of the glandular to sue the chance of subsequent mal gnant degeneration would be proportionately diminished Before opening the abdomen the cervix should be examined under sight and before closing it the amputated uterus should be opened and carefully examined for evidences of carcinoma CARRY CULBERTSON

king A F A t Uterine Carcinoma: Another Ily pothesis a to Its Cause and Prevention S f Gynec & Obst. 1913 xrs ( 8 ac. & Obst. Ily Surg ( succ & Obst.

The author prevents the original idea that cancer originates from the fertilization of maturated somatic epithelium cells by permatoxos. The somatic cells have been tran formed into sexual cells by long continued stratation—they have reduced their chromosomer—and when fertilized they produce the pseudo-embryonic structures to long recognar is a characteristic of cancer \u00bcu merous references from noted authorities are given more than the fertilization of cells is a crabed to less any original than the somatic cells but it to open more consistent of the control of the somatic cells but it to provide the produced are para ites just as the cells of a normal emily no control of the control of the produced are para ites just as the cells of a normal emily no.

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In the de elopment of malignant p roudo mbroone structures no embro appears at 1 on the trophoblast the uses—those that are normall form the ror embroome port no of the blate derive excite that deselog into cancer. These tropholistic off 10 cc nort a in an irral embroare phagewise and cyl line they corrod and destry acrowing it es pening blood exerdently acrowing to expend plood exerption of the properties of the properties of locating the properties of the properties of the control of the properties of the properties of the control of the properties of the properties of the control of the properties of the properties of the locating of the properties of the pro

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Bossi L M: The True Prophylaxis of Carcinoma Uteri (Die wahre Prophylax des Lieru krebses Ein Mah mi an die (ynakologe ) Z strafti J Gynik 1913 888/11 1000

By Zentralbl f d ges Gynäk u Geb rish s d Grenzgeh

The author regards the early diagnous of cancer as less important in cancer prophylasic than the discovery of means to probibit its development (Chronic ulcres and inflammations of the cervix and uterus should be treated con enauted), and cru uterus should be treated con enauted, and cru uterus should be treated continued in moratows to utake first and "liner cantile price are likely to cause irritation he holds that their use should be discontinued. He ruskes a pies that all gynecologi is make observations along this line in order to text its value.

RITHERSHULL

klotz R Treatm at of Inoperable Lterine Carchoma with Radium and Intravenous Chemotherapy (the Rendiusung des inoperablen Ltruck rusomes in 1 Strait in und 1 travenous Chemotherape) Huseko word Bick & 1913 1

By Zentralbl f d pes Cynas u Geburt h s d Cren-yeb

Report of 13 exess of moperable uterine carcinome, treated insulation 1) with el ctro-cobalt (intra-choust) 5 ccm to the done once a wrech) and rooter at eleves of radiant er rigi from rad unificon-juo N and 800 1400 mg bours). No distuit nees of the organ much as kidney uritation were observed from the intraver u injection? If the real 18 log as also tred add ing to this comb edite remains unjections from carcin matous pat into the proport good results.

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te n h a thy had t married it sea s, a d fall borne eight chiltren the lat 13 years ago. The memorance occurred at the age of to. Some time

### GYNECOLOGY

#### UTERUS

Rollett II Intra uterine \(\text{IIIIary Tuberculosis}\)
(Uber intrauterme milgiæ Tuberkulose) \(\text{IVen kli}\)
\(\text{II cksschr 1913 xxv1 1774}\)
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years and one month one three years and three months one three years and three months one four years and three months one four years and seven months one, five years and four months one five years and four months one five years and fur months one and years and three months ago. Several of these all years and three months ago. Several of these more convenced with longer experience that they will be few in number.

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Combining the statistics of Winter Aoble and Cullen the author shows that of 2786 exists of uterine myomata 124 cases or slightly over 3 per cent b wed either cervical or corporal malgnancy. There are no reliable statistics of the absolute frequency of cancer of the uterus, but to place it at 1 pe cent would be absurd. Therefore to a 1 per cent would be absurd. Therefore Leonard concluded that myomata ceret an indiscue uncontensably favorable to the development of uterine carcinoma.

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As a rule n n rmal impregnation only one ovule i fertil zed while in a isible speck of proliferated tissue the number of insturated cells liable to

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Bossi L. M. The True Prophylaxis of Carcinoma Uteri (Die wahre Prophylaxe des Uteruskrebses Lin Mahnruf su die Gynäklologen) Zentralbi f Gynäk 133 MINU 1000

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Kiotz R: Treatment of Inoperable Uterine Carcin mr with Radium and Intravenous Chemotherapy (Die Berindussung des inoperablen Uteruscarcinomes mr Strahlen- und intravenoser Chemotherapie) Hunchen med Bichatche 1913 kr 1704

By Zentralb 1 d ges Gynak u Geburth s d Grengeb Report of ty genes of inoperable uterane carcanoma treated imultaneously with electroscapid (intra treated imultaneously with electroscapid (intra treated imultaneously mith electroscapid (intra treated interest of the case of radiant energy from radiant and moder ate doses of radiant energy from the intrace of the organism uch as kidney uritation were observed from the intravenous injection of the metal. Most has also tried adding to this combined treatment reprorts good results.

Wegelin W Post Climacteric Vyosarcoma of the Lt rus (Postki makieruches Myourkom des Lterus) F k lk alik II adi II i gil n

By femirable if d ges. Gynák u Geburtah a d Grenageb.

The patient a woman 57 years old had always been healthy had been rearried 31 years and had born eight children the lat 13 years ago. The memopause occurred at the age of 50 Sorre time.

later irregular hamorrhages from the uterus began and these gradually increased in number and quan tity She complained of pain in the left ide of the lower abdomen and for five months the bleeding had been continuous The examination showed an enlarged uterus reaching several fingers above the pubis As the microscopic examination of scrapings of the uterus showed the presence of malignancy the uterus and adnexa were removed by laparotomy Recovery was uninterrupted On the posterior wall of the uterus there was a myoma the size of a small apple and its upper part showed sarcomatous degeneration Microscome sections howed the presence of two kinds of cells in the sarcomatous portion (t) Small spindle shaped or polygonal cells with round or oval nuclei which stained deeply and (2) large cell also with large nucle which however were stained pale. In the sections the gradual transition of magmatous cells into sarco matous cells could be clearly seen. The author assumes that both cell forms have developed from the myomatous to ue as a result of the same stim ulation the former from the connective tissue and the latter from the muscular tissue \ \ case recently described by Ogorek shows similar findings and seems to sustify the author a omnion

BIGRESTER

Hauizain F W II Som Rar Uterin \ew Growtha \footnote{\text{Rimpi Papilinan of Corpus Uterin Primary Tubercie of Cerrix Diffuse \text{\text{Vol Rimpi Papilina Color of Cerrix Diffuse \text{\text{Vol Rimpi Papilina Color of Certix Diffuse \text{\text{Vol Rimpi Papilina Color \text{\tex

This paper presents three rare conditions with the report of a cuse to distrate each. Simple papilloms of the corpus utern was present in a somma 59 sears of age 5th had n treed post chmacteric bleed ag for about twelve years but only recently had it become troublesome or e cess ree Currettage showed typic-1 sample papilloma and the author was confident that the currettage would the author was confident that the currettage would be called the currettage would be suffered to the currettage woul

Primary tuberculous of the cervis titen was found in a virpin 95 years of age II presented itself as a fungus like growth purple in color and concret with a titl 2, selloward discharge. Microscop ceamination is wed the presence of tubercle Supravaginal removal of the cervit was perfirmed. The patient made a good recovery and has been fell succe with no signs of tubercluous elsewhere. The author recommended hysterections in tend of the operation which he performed as it is a safer

procedure for ultimate cure.
Diffuse nodular fibross of the uterus was found
by the author in 700 hysterectomics for uterine
fibroms. The pathological condution consists in
the formation of unnumerable small fibroid nodules
varying in aire from that of a pin s head to th t of
a basel nut. In both cases the co d ton seemed to
have developed in the beginning immediately

beneath the mucosa and to have gradually but uniformly thickened the uterine wall.

Ohman K II Myoma of the Uterus and Ovarian Harmorth ge (Uterusnyom und Ovarialkieusen) F & 1st dish H will Helingsfors pill by 98 By Jentalki f d ges Chr 1 Groupe

The author reports 8 cases of Lettine myoms accompanied by otherine homorthage. He is of the opinion that hemorthage he is of the opinion that hemorthage occur in the owner in the presence of utrein fibroids and that the son her of the opinion has been according to the opinion of the contract of the opinion of the contract of the opinion of the internal gentlais in myoma cases. But are or arising the opinion of the internal gentlais in myoma cases.

C rtis and Out Perforating Hydatiditorm Vol (Contribution al étude d'la môle deséquate ou prof frant) 1 de grade et abri 10 3 x 3 B Journal d'Chrurpe

The authors have made an exhaustive study of the subject and report a ca e of their own Lvery perforating hydatidiform mole has, as is shown by its very name a certain local malignancy. It t nds to penetrate the uterine muscle and break through the vessel walls thus causing errous and sometimes fatal hamorrhage either external or intraperitonial. Most cases moreover show general traignancy histologically by ep thelial probleration and clinical ly by the appearance of meta tases. All the bistological reports nublished show dissemination of placental elements throughout the uterine muscle and a tendency f r them to be scattered through the bloodstream The authors case is the only one which has shown purely local and circumscribed lesions It is therefore relatively benign but t is a question whether it does not represent merely an early stage in de clopment. As these moles are practically always malignant radical hysterectomy s the only justifiable treatment in most cases Manual extraction cannot be done thoroughly enough to guard against recurrence Abdominal hysterectomy is successful if it i not delayed until the patient is too a emi Curettage is very d necrous a it involves serious hamorrhage and frequently sensis L CHEVRIER

Il naen T B Riss of T mperature Befor Vien trustion (the primenturell T mperat rateger ungen) B u kl d Tubert 913 xx 29 B Zentralbi f d ges C; tk Geburth d Grenzgeb

Refore pube ty a d afte the menopause the temperate rective I somen in the sam as that of men that is, there is an import parallel course for more manufactured to the manufactured of the dy During their periods like however there is a rise in the curve periods like however there is a rise in the curve and the minimum curve shows a g to variation than the maximum so that the post mentional type.

with its lower minimum temperature shows a greater daily variation while the premenstruil with an uncrea ed minimum temperature shows a relatively mailer daily range. During the first thard of pregnancy the temperature shows the premenstrual type then falls slowly and in the last half of pregnancy approaches the postmenstrual type but with a lesser daily range. The curves of pregnant women never show period variations.

In the normal puerperium of nursing women there is a slight rise of the evening and a marked rise of the morning temperature. A series of experiments shows that an increase of albumin metabolism probably causes the rise in temperature of the pre menstrual type The reason for the greater rise in the morning temperature is that in the morning a decided ri e does no harm to the organism while in the evening the heat regulating mechanism comes into play I erhaps also in periods when there are extraordinary demands on the organism the resting periods are shortened so that the time of the actual minimum temperature is shifted. The importance of the premenstrual period and the first half of pregnancy in tuberculosis is due to the increased albumin metabolism If a menstrual period occurs without any temperature variation it probably shows a failure of the metabol c reaction \umathcal{var} umerous reproductions of curves and an extensive bibliography are given

Cantoni V: The Changes in the Blood During Menetruation (Über die Bl t eränd runge währ end der Menstru tion) Arch f Gynak 9 3 zert

By Lentr lbl I d ges Gynak Geburtah s d Grenzgeb

Canton; investigated the coagulability of blood according to the methods of Wohlgemuth He examined the test tubes not only after 24 hours but also after the third fith seventh ninth and twelfth hours in order to determine the nossible changes which occur in the fibrin ferment and fibranogen content of the blood during menstruction The first examination was made at the height of the hamorrham period and the second about fifteen days before its beginning Only observations from the same individual wire compared. Seven experiments showed that the blood of the men structing woman coagulates normally. The local cause that pres is blood excreted from the geni tal organs in m coagulat ng has yet to be determuned

A sec of se ies of in extigations was made to discover whether there is at ally a dimunition in the silial 1 of the blood during men trustion in the silial 1 of the blood during men trustion. According 1 the compensation in those of Peegen dorff O iwall a determination was mil. I the report it we get the potential between a hydrogen electric movement in the serum and a n read present the service of the service and in the silicity of the silic

limits of the changes in the reaction of normal blood.

Investigations were carried out also to determine the total amount of the blood albuminoids before and during menstruction by means of the immersion refractometer of Pulfrich with the assistance of Reiss table For this purpose blood was obtained from five women fifteen and seventeen days before menstruation during the highest phase of the hamorrhagic period and seven days after the cessa tion of menstruction. The refraction index and with it the albumin content of the blood increased slowly with the approach of menstruation. Their maximum coincided with the height of menstruation and they decreased again with the decrease of menetruation Whether the change in the refrac tion index in menstruation is caused by the loss of blood or by other causes till remains to be deter muned

Dyr nfurth F The Detection of Menstrual Blood by the Glycogen Iodine Reaction (7 m Machweis des Men trusiblutes durch d Glykogen jodraktion) Ziich f Med B am. Beri toll 2

jodreaktion) Zisch f Med Bam. Berl 1913 2201 45 By Zentralbl f d ges Gynäk u Geburish s d Grenzgeb

The technique for the detection of menstrual blood is as follows. Smallest portions of the solid-cloth are rapidly pulled to pieces in a drop of a saturated solition of sodium benchonate to prevent the separation of the glycogen. \(^1\) drop of Lugol s solition is then added. On microscopical examination it will be observed that the blood corpuscles have completely disappeared. The brown discolored epithelium of the vagina which before could not be recognized at all or recognized only indistinctly can now be seen easily with a low power. The dependability of the method has been tested in various ways and found to be good. Per manner preparations cannot be made. IEVITI

Greife II Periodic Pains in Women (bber pen od sche Schmer en bei Ira en) Pier b med Zi h

1913 XXX u 75 By Zentralbi f d ges Gynak Geburish s d Crerzgeb

The author points out the great practical im portance of the symptom of periodical pain in women first described by Simpson and recently rescued from oblision by Sneguireff At the same t me each day they ha e violent pains in the abdomen which always is t the same length of time These periodical recurrences indicate uterine carci noma or other foreign inclu ions in the uterire cavity and re caused by period c discharge of the col-lected e retion. The author cites the case of a 50 year-old woman who had these unendurable pain for from one t five o clock and later from nine to clev n o clock in the evening \ supravag in 1 mp t tion was performed for myoma an d war nom apparent both macroscopically d mix oscop cally was found so that afterward th c re z which had been left had to be rem sel

RITTER HALS

Chase W B Menorrhagia and Metrorrhagia Treatment and Remarks on Recent Claims by Radiotherapy V F St. J Med 19 3 Ru 4/8 B) Sir Gync & Obe-

The author states that each mensureating woman san individual equation in considering her periodicity and the vanous degrees of her resultance in the loss of blood. Some of the techniqued inctern having a pathological basis are utenne myoma, desperarative chromic endomentis indiammations of septic origin and those incident to miscarrage subhivabilities, utenne displacements etc. Those of systemic origin include purpour malaran nephratic arterio-scherolis, and exhausting acute and chromac diseases. Bleeding which is of reflex origin, as seen as puberly sifter a local shock, or

landent to a powerful emotion.

He di dols the treatment into hyperic medical
and surgical. All predisposing or exciting causes
must be removed. The patient requires proper
food exercise in the open air with caution against
future and she must hie and sleep in a well ventiisted apartment. The should recline in a bornon
all position with the foot of the bed elevate.

Medical frenisses! Constitution should be requisited by dut as far as possible and the drugs used should be midd salones phenolphithaleun and oil, rather than alors and vegetable extratures Phithalate of cotarnus opours hydrastum, and ergot are particularly useful. Organic rons is use ful in some cases the extrum salis are unducted if the coagulation time is dimensible, also hore serum used by intravenous upsection. Normal salue must be avoided during scrite bleeding. The high nervous tension should be controlled by brounder Surgical requirent This procedure must note be

edayed too long. My oma of the unbuncous variety is most productive of hemorrhage and requires as early hysterictiony. Curtiage is usually all sufficient in degenerati e changes of the ended with the control of the c

After thirth five years of age a harmornhage in a monan chould always suggest malignancy. In the last census reports it is abown that one woman in every fourteen died of cancer. After forty five years of age the ratio is one to name.

Decidoous malignums as very puraing form which causes hemorrhage and as soon as the disposus as made in the laboratory an immediate hysterectory must be done. A ratheal change of treatment in homorrhage due to my omass and necessaring the pathological causes are lacking hardened and offernant and other continental chainst by the use of the A. ray. This treatment is appeally microated where the pathous refuses an operation of has in

sufficient strength or is made to stop work. Eight weeks of rangentherapy is sufficient. The author quotes Wetner as regarding the action of the X-ray to be that of influencing the chemistry of the body cell probably that of the oversy

ROBERT T CHIMORY

Baldwin J F: Dysmenorthma from Imperied Development of the Letrus or Mallormtions. Med. Rec 1913, Iron 480.

The author calls attention to the fact that is created by any percentage of cases of dynamostribas are due to malformation and perfect divergence of the eterus. Such pattent give a hantoy of particular to the eterus. Such pattent give a hantoy of particular at the begunning of the eterus of the

Stark, J \ Four Cases of In ersion of the Uterns | f Ob 1 & Gynec Brit Emp. 1913 ann. 61.

By Surg Gynec & Obst.

Two of Stark s cases were purperal and two nonpuerperal Of the puerperal, one was acute and one chronic The first patient a primipara, died of shock soon after the inversion, which occurred with the deh ery of the placenta by Crédé s expression. The second case that of a primipara also, was discovered four months after labor during which time there had been a more or less continuous bloody discharge Reposition was effected by abdominal section and incision in the posterior median line of the rigid neck of the inverted peritoneal sac. The author formulates the treatment of puerperal st version as follows I If there is little or no shock, reduction should be made at once the placents being first removed if still adherent 2 If there is severe and serious shock energetic and immediate measures must be adopted to combat it time not heing wasted n attempts at replacement which if successful might agravate shock 1 When the condition has improved taxis should be employed gently but scientifically under angethesia 4 In cases seen after the lapse of months or years if moderate taxis fails the uterus should be rein erted

if possible by abdomusal section and incuson. En hot the two non pureperal cases was the result of a malignant growth in the fundus 'vigel' second pattern being an unmarrend utiliparts long past the memopause. He regards the only treatment worthly of considerant ones to be a subject to the constraint of the considerant of the part of the considerant of the part of the constraint of the part of the p

or softening and atrophy of the musculature (3) if there are dense perstoneal adhesions binding down the uterus or fixing bladder and rectum The ab dominal route should be chosen for hysterectomy rather than the vaginal. CARRY CULBERTSON

Westermark: The Question of Prolapse Inter position of the Uterus (Prolapsings I t position des Uterus) Versammi d Nord chr Vereins kopenh

By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

The author believes that his method of lateral colporthaphy in conjunction with the other plastic methods gives the best results the records showing less than 7 per cent recurrences By means of an ordinary phantom he demonstrated the manner of action of his colporrhaphy which stretches the vagina laterally Furthermore the priority of the so called interposition operation between bladder and vaging belongs to him. The method which he employed for cure of cystocele was described under that name in Hygiea It is not ident cal with that of Wertheim but with that described later by Schauta and it is indicated only in cystocele cases In cases of total prolapse recurrences occur fre-quently by this method and in such cases therefore it is necessary to perform the usual vaginal plastic operations in conjunction with the above mentioned literal colporrhaphy He has employed the inter position operation in 40 cases of cystocele without any recurrences. In conclusion the author states that since December 1912 he has followed the suggestion of Carrel and employed vaseline-catgut for the buried sutures and vaseline silk for the exter nal sutures According to Carrel the procedure prevents the formation of thrombosis and pul monary embolism which are the most dangerous and mo t frequent complications of prolapse operations CAMUTISTE

Von Radwanska W Congenital Total Prolapse Ut rus in a New born Infant with Spina B fida (D r angeborene ganzliche Prolapsus ten bei einem mit Spina bifida behafteten Neugebo-renen) Gy åk R ad ha 913 vii 5 5 genen) Gy at R nd ha 913 vu 5 5 By Zentralbl f d ges G<sub>5</sub> k Geburtsh s d Grenzgeb

The author repo ts 14 known cases of pro-

The numor repo is 14 known cases in pro-lapse of the uterus in the new born. Twelve times spins bifids was also present. The spins bifids causes defective innervation of the pelvic floor favoring development of prolapse

Olow J Results of the Operat ve Treatment of Genital Prolapse (Res ltat der operat en Be-handlung des Genitalprolapses) Ver mml d A d erar Kopenh A 1 creas Kopenh 9 3
By Zentralbi f d ges G3 ak Geburtsh a d Grenezeb

At the gynecologic clinic in Lund 152 cases of genital prolapse were operated upon between 1909 and 1911 In 108 of these a re-examination was performed In 22 cases a plastic vaginal operation was done Twelve of these showed absolutely no ugns of recurrence 4 were subjectively well but

the result was not perfect objectively Three cases were in fairly good condition and 3 had recurrences Of the 12 cases which were treated with ventrofixation alone 8 were re examined 2 had recurrence and 6 had no recurrence A total of 89 cases were treated with ventrofixation and a plastic vaginal operation Of these 3 died and 72 were reexamined 53 of these showed no signs of recurrence whatsoever and 6 were subjectively well but objectively the result was not so good. A fair result was obtained in 5 cases and in 8 a recurrence set in A ventral herma developed in 5 cases at the site of the scar In all the successful cases the fixation was firm but in 2 partially successful cases and in 3 of the recurrences the uterus did not remain in place

Total extirpation of the uterus was performed in 4 cases of which 3 could be re examined. Two cases were completely successful. In one case the patient is well but the objective findings are not Total extirpation of the uterus plus vaginal plastic operation was performed in 3 cases One case was re-examined and showed no evidence of recurrence Extirpation of the vagina was per formed once and recurrence did not set in

GAMMELTOFT

Hartmann Pessary Treatment (Pessarbehandlung) ber mml d hard her Ver ! Kopenh 913 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Hartmann reports the pessary treatment em loyed at the gynecological clinic of the Reichshospital Operative treatment is carried out wher ever possible The action of the ring shaped pessary is regarded as insufficient as it rises on edge and permits the cystocele to glide down shead of At times it also dilates the hiatus The transverse pessaries held in place by a stem are to be preferred the action of the stem being to fix the pessary and thus prevent shipping the soft struc tures being rarely pressed upon All forms of prolapse from the smallest to the largest have been treated in this way but a definite amount of muscular sufficiency is necessary to give the pessary support as it should rest on the pelvic floor Subjective improvement can usually be obtained but complete reposition is seldom possible. It is often possible to decrease the size of a rectocele by means of a transversely placed pessary as it draws the posterior vaginal wall upward. Such treatment must be carried on cautiously and it is necessary to change the pessary every two to three months Douches must be given daily Pressure symptoms were never observed with hard rubber rings but severe colpita frequently occurred GAMMELTOFT

Childe C P Suggestions for the Technique and Ide G P Suggestions for the accuming to the Appendix Abelians and Abdominal Panhysterectomy Brill 1 10 3 by Surg Gynec & Obst

After the patient has been anæsthethized she is placed in the lithotomy position for operation



Patel and Ol vier Conservativ Treatment of Tuberculosis of the Adnesa (D is therapeutique conserv true dans le tra tement de la t berculose nexielle) Rev degrate et ch bd m 9 3 xxx 3 B, Journal d. Chirunge

Patel and Olivier have studied the cases operated on at the surgical chinic at Lyons since 1900 for tuberculous of the adnexa selecting only those where the disease had been demonstrated histologically or bacteriologically

They gave the ulumate results in the cases treated conservatively and draw the following conclusions. The vaginal route ought to be abandoned entirely except in cases with secondary infection where there is a collection of pus in the pouch of Douglas intering with the function of the rectum Of 16 patients operated on through the vagina 12 had to be reoperated by the abdominal route. Simple laparationary it the deal conservative treatment but a part of the control of the tubes it should be completed by salpunger tomy. In some cases the uterus alone had been preserved but Patel and Oliver believe that this organ without the adners is dangerous and useless It should be completed activation only in case it is so surrounded by tuberculous inflictation as to render its removal impossible or very difficult.

As to mortality and duration of hie afterward conservative methods give about the same figures as radical. The survivals extend over a period of mine years. The health of the patients seems to be good but there are almost shwaps some after effects such as abdominal pain tenderness on pressure or in one case hypogastire fistula. All the patients except one mentituate but the periods are often long copious and painful. There is leucorrheed in all the cases pregnancy occurred in only one

It is a question whether the continuance of mentration is important enough to warrant conservative treatment with its danger [recurrence especially as castration in these pat ents does not produce any particular disturbance. Ptel and Oliver believe the it is justified in creas where the tuberculous has assumed a d mant form so to peak such a tubal cold aboress and tuberculous hydrosalpinz. These two forms re ben go and when they are d I netly localized in the tube the

preservation of the uterus and ovaries is justified When the ovaries are affected however either alone or with the tube a radical operation should be per formed Lusey

Nowikoff A Therapeutic Significance of Castra tion (Therapeutische Bedeutung der Kastratio ) Zitchr f Geb risk w G dk 10 3 xvm 277 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

In severe cales of dysmenorrhora in which all other therapeutic measures fail the author recom mends castration as the most certain method of cure Whenever castration was performed for this nurpose the author always found a hypertrophied but histologically normal ovary Frequently this finding is combined with malformations or with myomata but many times the hypertrophy is the only finding so that Nowikoff considers this a clin cal entity The poor results obtained by castration in osteomalacia are well known pulmonary tuberculosis the author prefers castra tion to hysterectomy It causes a disappearance of menstruation and of the monthly hyperæmia which may cause exacerbations of the pulmonary The vasomotor disturbances disappear in time Phenomena due to lack of ovarian secretion were not observed GINSBURG

Moria ta D C. Pel ic Cellulit a Albany M A n 1913 xxxx 543 By Surg Gynec & Obst

The author urges that operations in acute pelvin infection should be limited to those for drainage and for perstonitis. Usually these are performed best through the vagina. Vaginal incision to be of value must be free. The earlier the pent up just is released in pelvic infection the less damage will be done to the pelvic contents.

An incision in a pyosalpinx is useless as a curative measure though often useful in relieving pressure. In chronic cases the author believes it is conservative surgery to remove the diseased tubes and ovaries.

A gonorrhoral infection may extend through the structures of the tube and cause a localized pentomits with the formation of many adhesions Gonorrhead peritorium araely extends and involves the general peritorium Gonococci may cause a salpingits a pyosalpinar and a peritomitis but never a pelvic celluluis

Tuberculosis in the pelvis is usually primary in the tube and is generally disseminated into the other tissues Tuberculous infection may be spread by the blood the lymphatics and contact

The author urges the necessity of accurate dags noas before uterion instrumentation. Curetage is useful in apprexima but usually fatal in septicemia if in doubt concerning the actual condition — even if there he best and induration associated with pain with or without a chill a rapid pulse and some tem with or without a chill a rapid pulse and some tem the character of the organisms is node unless mined by a bacteriological examination.

# EXTERNAL GENITALIA Rothe II : Is a Bloody Dilatation \eccessry in \aginismus (is been \agentimes and blutge Fr-

westering notwendig)? Zische f Geberteh u Gynali 1013 party 4.0 By Zentra?! ! d ges. Gynak u Geburtsh a d Grenngeb The author considers vaginismus as a psychical

refer induced by a phobia but does not rely alone upon the non bloody division of the constrictor cansi. Psychical influence is also necessary. After a tranual dilatation under narcous, the patient should have inserted a cotton plug containing coes ne saive f r ten minutes, twice daily followed by the introduction of a dilator kept in place for an hour The author begins with dilaters ranging from 20-24 mm. The dilators may be made of polished wood or hard rubber During the introduction the abdominal pressure should be utilized a antagonistic to the spasm of the muscles involved.

Parham F W A Case of Inaccessible Ves co Vaginal Fistula Operated Luon by George Gray Ward a Viethod Suri Grace & Obst 1913 B hurg Gynec & Obst x31 365

The fistula followed a total hysterectomy and occupied the sper of the left vaginal sulcus Efforts at closure per vagmam by the ordinary method failed as did a second attempt by opening the blad der and closing the fistula ithin the bladder and

per vaginam

At the third operation Ward's method was tried This cond to in making an incision from just behind the urefus backward to the posteror wall of the urefus and another at the level of the fistula across the vagna The four flaps are dissected up freely until the blidder is sufficiently mobilized to be brought down by a straight sound introduced int the urethra The fistula is then easily sutured the urcura to begin this dissection in the center where the lines of clear ge are well marked

Nothing new is claimed in this mobilization of the bladder as it has been done by many operators since 1804 but the special technique as given by Ward 1804 DIE THE SPACIAL SCHEIGHT AS SIVEN DY WARD for cases of fistula consequent upon total hysterec-tomy is oclear and simple that it will appeal to any surgeon confronted with such a case

The author also calls attention to the use of the fascial flap in these cases and refers to one success fully done by Schmidt who placed a flap of the fascia lata over the sutured fistula and then sewed the mucous membrane over that E L Conveil

The Treatment of Gonorrhoeal Wolff M In Children with Autogenous Cheago Med Res 913 xxx 46 By Surg Gynec & Obst Lastniti

The author discusses his reasons for using au togenous vaccines in t eating gonorrhoral vaginitis

in children giving his methods of preparing and administering the vaccine and tabulating his results in a series of forty cases

Either stock or autogenous vaccines may be used. but the latter type is to be preferred as it offers a more specific method of treatment. In the first place as the particular strain is very important the organism of the stock vaccine may not be the one needed at all moreover the vaccine should be made from the organisms recovered from the patient and not from those resulting from several transfers of these organisms on artificial media The vaccine must be fresh

Five culture tubes are moculated, three of human blood agar or hydrocele or ascitic-agar and two of plain agar After forty-eight hours incubation at 37 C all of the growth from all of the tubes is used in making the vaccine. If the vaccine cannot be made at that time the tubes are put into the are box so as to stop the growth. The vaccine is killed standardized and stored in the usual manner For at least two days previous t the time that the cultures are taken for the vaccine the child should be given no local treatment

The vaccine is injected hypodermically and the mittal dose is twenty five to fifty millions. Usually babies and small children are given a smaller dose than older patients The reaction may be slight or severe and disappears readily. In some cases there
may be no rea tion at all. Injections should be separated by an interval of from five to seven days Smears should be made two weeks after the initial dose and at intervals of a week thereafter If at the end of ix weeks the case still needs treatment a

second vaccine hould be made In a series of forty cases treated as above outlined no other treatment was used except ordinary external cleanliness and before each patient was discharged as cured three negative smears were obtained one week apart after treatment had been stopped Only one case returned after a period of two months with a recurrence, and while it has been one year since any of these cases were treated this one so far as known is the only recurrence. The ages of the patients varied from one month to one and a half years The number of injections go en varied from lour to ten the average being seven, which means thirty fi e days as the average time of treatment

A carefull prepared table is presented, showing in detail the treatment with mixed autogenous vaccines For gonorrheral vaginitis in children the author considers this treatment 100 per cent fficient. In adults it shortens the time of treat ment and in many cases shows remarkable results when used in conjunction with the usual local procedures In children however vaccine should be the only treatment given There is no tampering with the child's genitals or reproductive organs, which in itself is a great thing for the child and moreover the cure is quick and harmless as there is nothing to cont a indicat its use

C. D HOLKES

Barnett N Yulvoyagınıtla in Young Children Its Control and Successful Treatment Arck. Pediat 1913 Exx 650 By Surg Gyace & Obst

Fifty cases are reported only them; which which continued systematic treatment. The duration of treatment varied from one week to an years but the average was eight and one half months. It was shown in examination of these cases by means of the urthrial speculium that the cervit was always affected. Superficial ulcerations were frequently to be seen in this region.

Six cases showed complications one was complicated with arthritis of the shoulder one with arthritis of the wrist one with chronic general pertonitis one with painful heel (periosteal exostosis)

and two with pelvic peritonitis

Except in complications, Barnett had no results whatever from the use of vaccines In no case was a culture from the urethra positive. The treatment as given by Barnett was as follows.

The external genitals are sponged off and the labia separated the Kelly endoscope is inserted as far as possible the size of the endoscope depending on the size of the opening in the hymen and not on the age of the child. An endoscope of proper size should cause no pain - this is of the utmost im portance After one or two sittings the little pa tients will allow this procedure quite readily the obdurator of the endoscope is withdrawn the light inserted and with no other manipulation than with drawing the tube one quarter to one half inch the cerviz presents at the distal end of the tube any secretion is then removed with the applicator and todine (Lugol's solution) is applied directly to the cervix and vaginal walls as the endoscope is slowly withdrawn These endoscope treatments are car ned out three times a week The important fact to bear in mind a infection of the cervix and the treat ment should be directed toward elimination of this focus of infection

As to prophylanis he advises that the children should be kept separated from other children in every possible way and the teachers and social workers should be taught the prevalence of the

condition

Pleischauer Operated Vulvocarcinoma (Openetes Vul acarcinom) Muschen med Bichnick 9 3 km

By Zestrabli f d ges Gyask u G burtsh d Grenaged According to the author the poor permanent results obtained in cases of vulvo-curcinous are due to the fact that the anatomic relations of the lymphatus of the external genutains are not agic quately considered it is not sufficient to remove only the exter al inguinal glands but following the suggestion of Rupprecht the deep glands lying in the fatty tissue of the fosts ovaits along the unser the suggestion of Rupprecht the deep glands lying in the fatty tissue of the fosts ovaits along the unsert both sides Furthermore according to Stocked both sides Furthermore according to Stocked the hypogastric and inactal glands about also be removed by laparatomy.

Martin A: Sarcoma of the Labia Majora (Sar come de la grande lèvre)

Res de gynée et de chir ghdom 19 3 xn 177

By Journal de Chirunge

Martin observed a case of sarcoma in this unusual locality and looked up the similar cases in the literature. He found they were generally owned tumors. With the long axis following that of the labia almost regular in contour with possibly a lew more or less prominent nodules. There is generally nothing in the gross appearance to enable one to differentiate them from other tumors. The skin seems healthy or sometimes a trifle ordernations but it as not adherent. Below the tumors in adherent to the order that the state of the interest in the same of the same of

On section the tissue is firm and lardaceous resembling carcinoma sometimes it has the classical

appearance of melanosarcoma

Histologically fuso and globo cellular sarcomats have been described but they are rare. Bor mann describes peritheliomats originating either in the adventuia of the blood vessels or in the endothe lium of the perivascular lymph spaces.

These tumors originate in the subcutaneous cellu lar tissue. Often the sarcoms has been preceded by a nævus or a cutaneous or subcutaneous angoma—in other words a mainmant degeneration of a

congenital tumor

Chucally there is a first stage which may last for years when there is only a small indolent nodule or a more or less pigmented newus. During the account stage there is more or less rapid growth of the tumor which becomes troublesome but not paniful. In the third stage there is a tendency to paniful and the third stage there is a tendency to the same and the opposite side and to the choices or the muscles to compression of the internal saphenous and of the femoral resulting in ordema and finally in metastages and cachena:

In the majority of cases absolute diagnosis can be made only with the microscope. The prognos is grave. Treatment is surgical. If the glands are movoved they should be removed en masse with the tumor. Frequently there are adhesions to the suphenous or femonal Radiotherapy should be suphenous or femonal Radiotherapy should be suphenous or femonal radiotherapy should be hand even when operation is performed early and the patient generally due so fine financiases.

GEORGES LARRY

Schultz T The P lvic Floor and Its Relat on to the Gene s of Genital Prolaps (Der Beckenboden und sein Verhältniss zu der Genese der Genitalprolapse) i ersommi d H rit chur Verens

Kopenh 913

By Zentralbl f d ge Gynak Geburtsh d Grenzgeb

The pelvic organs are carried by the muscular pelvic floor and the author claims the explanation of the method of closure given by Halban and Tandler is incorrect and that the urogental daphragm the permetal body and the percental portion of the levator and are of no agusticance. The opening in the levator is no vagital upit which closes itself transversely but a round opening or a transverse split which is closed longituding of the closure is effected by the public rectain muscle which acts as a sphincter purpose that it is about as a phincter pulsus.

The author shored the action of this planeter upon the vagans and return by means or plaster cats. Gential prolapse is due to an issufficiency of the sphincter pervis. The cases of post partom prolapse are due principally to a tening of the anterior Insertion points of this sunctio. The prolapse is the newborn is due to a paralysis subjective and the prolapse of an insertion in this sphincter and the prolapse of many manner that an invegnation of the error man paname that an externial part of the control part is prolapsed. A retox-erision and the clong-cation of the cervis must be explained according to Ecogonycet's sibeory and not according to Halban's and Thadder's theory and not according to the control of the contro

### MISCELLANEOUS

Daniel C.: Inguinal Hernia of the Female Genital a (Die Leistenbernen de weiblichen Gegehiechtsorgane) Bestr z Gebartek z Gynak 19 3.

gyar 3 ?

By Zentralbi f d ges Graik Geburtsh a.d Grenzgeb

Ingunal hernias of the female genetals occur at all ages, most frequently in the first two years There early appearance unit general enter of sailormation frequent accompanient of sailormation companied origin. The contents may be the utward alone or with the adners the origin frequently the adners of with the adners the origin frequently the adners of one safe the latter of most frequently the adners of one safe the latter of the adners and tubes as an etological ford account of contract of the contract

"Downward a gental herain as difficult orana huma as the casent to dispose, because the round amount a symmetrical oxary can be felt it as senative to pressure the pedice is in the negunal canal and there are various mentional disturbances and manual examination about alwards in microscopic and a senative consistency and most free purpose of the pedice for the period of the herain resulting in personness microscal always from the pedice for the personness of the pedice for the herain resulting in personness microscal always from the pedice of the herain resulting in personness infected all stages from catalitations and the pedice of the herain resulting in personness and the pedice of the herain resulting in personness and the pedice of the herain resulting in the pedice of the pedice of the herain resulting in pedice of the herain result

should be spared as far as possible The author describes a case of his own precenting night salpings objhohus in the sac of an ingunal hernii in s woman of 31 After a radical operation for hernii and castration on one ude recovery was made GRATTYKE

Aschner B. Pausionate Phenomena Illyses erms and Hamorrhagis of the Penals Gen talus F llowing Subcutameous Injection of Onarian or Flacental Extract (Illeb Panutatage Enchemenges Hypertime und Himorrhage an weblichen Gentale anch subcutaner Injection von Oranal oder Flacentarentrakt)

\*\*Arch J G., 2025, 514.\*\*

\*\*The Company of the C

While experimentally producing mulk-ecertion by means of the subcutaneous fapetion of overain and placental extracts the author noted a hypersman of the genetals. He could produce hemorrhapia even hematometra in the utena mucoss of gunea pigs the owners containing an unusual number of npenng folicies. He believes that this hump about the hypersman in the gentla ha. It is a counter that the country about the top the country and the second country of the country of the

Albers-Schönberg: The Treatment with the So Called Deeply Penetrating X Rays in Gynecology (Referst ther the gynikologuche Tefen therape) Fortekr a & Go & Rougent 19 3

EX, 93
By Zentralbi f d. ges Gynäk Geburtsk s d. Grenzgeb

The author says the gynecologist should make the diagnosis, set the indication for treatment and observe the clinical course of the disease when A ray treatment is employed and the röntgenologist should determine the technique and dosage to be employed Animal experiments have proved that macroscopically there is a decrease in the size of the overy Histologically a disappearance of the grashin follicles and a quantitative decrease in the germinal epithelium with degeneration could be demonstrated These same changes could be observed also in the human ovary. All myomata are indications for A-ray treatment in patients of 40 years or over the younger women requiring larger doses. Its use is contra indicated in polypoid or gangrenous tumors showing act ve hyperplasia of the epithelium with polyp formations cystic tumors with sarcomatous and carcinomatous degeneration or those in which such degeneration is suspected. Of much importance is the disappearance of hamorrhage and the decrease in the size of the tumors that result Enlargements of the tumor however may occur under treatment in pite of the fact that the hemor rhage has crased Menorrhagias and metrorrha guas are blewise influenced favorably Side reactions occurred similar to those reported by other authors. The author's conception of the action of the rays is similar to that of other men previously reported. About 75 per cent of the author's cases

## OBSTETRICS

# PREGNANCY AND ITS COMPLICATIONS Andrews II R Acute Abdominal Pa n in Pregnancy C1 J to 3 xl 333 By Surg Gynec & Obst

The following conditions are considered by the author as the causes of abdominal pain in preg py elonephritis adhesions extra-uterine pregnancy simultaneous intra- and extra uterine pregnancies acute hydramnios hydatidiform mole uterine fibroid twisting of the pedicle of an ovarian tumor intestinal distention pugumonia, and pleu risy Each condition is illustrated by a case-report Because a woman is pregnant and has acute ab dominal pain the pregnant uterus itself should not be held responsible for the suffering Many com-plications of pregnancy causing acute abdominal pain are missed and the patient is condemned to much unnecessary distress as the pain is attributed to painful uterine contractions and treated only with sedatives

Pychitis of pregnancy is rather common the symptoms usually beginning during the second half of pregnancy The diagnosis is made from the signs and symptoms and the disease must be differ entiated from appendicitis enteric fever other gastro intestinal disturbances, and influenza as well as from renal calcul. Pvelonephritis in preg nancy is caused most frequently by an ascending in fection facilitated by a dilatation of the ureters due to pressure of the pregnant uterus at the pelvic brim The right ureter is pressed upon more often than the left as it lies farther from the middle line and so gets less protection from the projecting promontory of the sacrum Infection may be also of hæmatogenous origin or transmitted by con timuity from the bowels \accines ha e given good results in conservative treatment. Interruption of pregnancy should be avoided unless both Lidneys are affected and the patient s condition goes from bad to An increased ri k of puerperal infection is denied

Acute abdomnal pan due to adhesions is present in cases where ventrofixation has been performed. The author makes it a point to suits e the uterus as low down as possible usually at the vessor uterine plca. He does not recommend the auturing of the posterior part of the fundus to the abdomnal wall in a patient who may become pregnant again. Of 189 cases of pregnancy, and labor after ventrofication the were there cases of uterine rupture and too the were there cases of uterine rupture and whother complections in the possibility of interincial strugulation which should be prevented by occlusion of the vessor uterine pouch by the suture.

In extra utenue pregnancy the pain is due to bleeding either into the pertoneal cavity or into an encysted collection of blood. The occurrence of sighet external bleeding accompanied by pain in early pregnancy must always arouse suspicion that the ovum is occupying an abnormal size Mistakes in diagnosis in severe internal hæmorrhage due to tubal pregnancy are perforation of the appendix perforation of the appendix perforation of the appendix perforation of a gastric or duodenal ulcer or trusting of the needle of an oxania tumor.

If hydramuse occurs in the fore or middle part of pregnancy and not in the last two or three months it may cause scute symptoms such as severe pain and uncontrollable vomiting. It is usually found to accompany a twin pregnancy. Andrews tells of collecting so paits of liquor amout in one case. A hydrathform mole that is large and growing

A hydathdiorm mole that is large and growing rapidly may cause severe pain and often albumin una. If intra uterine pregnancy is accompanied by bleeding pain and much vomiting or albuminum during the first half of pregnancy a hydatiorm mole should always be thought of Albuminum of pregnancy is to rare before the aixth month that it should always be thought of Albuminum of pregnancy is abnormal. The size of the uterus is usually fur ther advanced than would be accounted for by the period of smenorrhera and no evidence of the presence of the fettus can be obtained.

Acute abdomnal pain due to fibroids may be caused during pregnancy ether by degeneration or incarceration of the tumor. If the latter becomes painful degeneration should be suspected. One is loath to operate on fibroids during pregnancy because the increased vascularity may make myo mectomy impossible and render hysterectomy mecsasing and also because myomectomy may be followed by miscarriage or premature labor. Rest and sedatures often enable a patient with tender painful fibroids to go on to full time. If an operation is rendered necessary by acute pain during pregnancy myomectomy rather than hysterectomy should be performed whenever possible.

Torsion of the pedicle of an ovarian tumor occurs fairly frequently during pregnancy. The onset of the pain is usually sudden and accompanied by fainting and vomiting. The abdominal wall is tender and tense intestinal distention occurs soon after twisting. Operative interference is indicated

Intestinal distention during the latter months of pregnancy is alarming on account of the added distention of an already filled abdomnal cavity Usually it is due to constipation and is relieved by enemata and cathariss 'pendicits, pyclonephr to twisting of an oxaran tumor and disphragmatic pleurisy must be excluded.

Pneumonia and picurisy are rare in pregnant women probably because of an added immunity The datters caused by impeded movements of the dispuragm may be very severe. Premature labor frequently comes on pontaneously

HENRY SCHWITZ

Talk E. The Treatment of Latra Uterine Pres. nancy (Zur Therapie der Estra teringra id tat) trck f ( wat to 3 zciz, 635

By Zentralel f d ges Genak u Geburteh s d Grenzgeb The author treated surgically eighty-four cases of extra uterine pregnancy three of them by incision of an infected harmatocele ten by removal of the tubal sic by an anterior colpocarhotomy and sevent) one by a laparotomy Thirty five were emergency operations Three patients ded making the mortality 16 per cent In spite of these favor able results balk is of the opinion that a diffuse hamatourle of moderate size resulting from a tubal abortion in the fifth sixth or seventh week and without continuous hismorrhage severe disturbances an isolated tubal tumor and any demon strable growth does not necesstate an operation. A number of such cases he treated expectantly keeping the patient under observation continually and did not have a single death Moreover the patients did not experience any lasting injury to their health. In almost every case the hamatocele was absorbed within a few months, and in some

cases pregnancy occurred again
Falk admits that it is difficult to differentiate between a diffuse hamorrhage encapsulated in the cul-de sac and an advanced ectopic pregnancy with a blood mass. Of the three deaths, one was a case which was treated expectantly at first but which later necessitated an emergency operation Surgical treatment is indicated only under the following conditions (1) If an intact extra uterine pregnancy is recognized (2) if the patient s life is endangered on account of hemorrhage and (3) if an isolated tubal tumor can be demonstrated next to the hematocele.

The author urges great rapidity in operating He himself prefers the abdominal route avoids the elevated pelvis position and attempts a careful toolet of the abdominal cavit; as the irritation of the personeum caused by the presence of the blood produces an elevation of the temperature One third of his cases had temperatures before the opera-In one case of rupture of a tumor containing find blood he noted also toxic acute atrophy of the

Hartmann I P: Tubul Pregnancy (Bestrige zur Abnik der tubaren Schwangerschaft) Kord med A & 19 3 k Sez zl By Ze traibl f d ges Cvn k Geburtsh s. d Grenzgeb

A clinical report of 03 cases of tubal pregnancy treated from 1898 to 1910 showed nothing particu larly new Laparotomy was performed in 66 cases in 16 the operation was by the vaginal route Since

2005 the abdominal route has been used exclusively In 40 per cent of the cases where operation was per formed on one side only pregnancy occurred after wards The other adnexe should be left in place if their consideration justifies it at all Biggreyers

Ward C: Case of Prolonged Gestation Double Uterus, Tubal Abdominal Pregnancy Tressrest II J gaz. 80

By Surg Gynec & Obst.

The author reports a case of tubal abdominal regnancy from which a perfectly formed dead fortus weighing about 8 lbs was removed diagnosis was made after dilating the cervi ploration of the uterus showed that it was double and that the right half which corresponded to the tubil pregnancy contained decidua, while the left half was smooth The duration of pregnancy in

this case was estimated to be 308 days
On opening the abdomen the head presented, and the child appeared to be free in the abdominal cavity with no sac or collection of fluid. The placenta was attached to everything it could reach and was detached with difficulty. It was necessary to stitch the intestine for two inches The uterus was double and about the size of a uterus a week or two after delivery The left appendage was nor mal. The right tube was enlarged to about the size of a thumb in thickness and about in the center of the ampulla rather to the uterine side and behind was a thick swollen edged aperture which he thinks was the original rupture C H. DAVIS

Smith R. R: Intra Uterine Fracture Surg G) at b' Obst 19 3 xvn, 355 B) Surg Gynec & Obst Smith reports a case of true intra uterine fracture

giving X ray plates and photographs. The mother fell through a porch two months before delivery The child was born with a united fracture of the tibia and fibula. This was corrected about three weeks afterwards by open operation

Intra uterine fractures are divided into four groups as follows

(1) Intrapartum fractures occurring usually

during artificial delivery (2) Fractures depending upon disease of the fortus the fracture being incidental chondrodys-

trophia, osteogenesis imperfecta, and syphilis (3) Certain deformities usually of the leg formerly commonly classed as intra uterine fractures but now proven otherwise. The uthor discusses the various theories as to their origin and concurs in the view of Mail that they are due to

faulty implantation of the ovum (4) True intra uterine fractures occurring in

healthy india duals and resulting from violence From the literature Smith has collected forty two cases of the last named group Some of these he believes are doubtful The fractures may occur without abortion or serious injury to the mother More than one fracture sometimes occurrs in one factus In all there were twelve fractures of the charcle clevan of the skull cleven of the leg four of the forearm four of the humerus three of the femur and one of the expuel. It is well to know that such true uterms fractures though rare may occur in order that we my be able to distinguish them from the oth r fractures or deformities seen at botth.

Paddock C F: Pregnancy Complicated by Appendicitis im J Ohn \ 1 0 3 1 4 9 B) \ungager t nec & Ohnt

In appendic tis luring pregnancy the uterus helps wall off the infected zone and in case of an at ecess forms a part of the al see s wall The fever an I the stritation produced by the inflammatory reaction set up ut rine contract; as so that a large percentage of acute c ses abort. The on equent contraction and retracts n of the uterus terrs adhesions or may actually remove on of the walls of an abecess and cause a generalization i the peritoriti In this was appendi its is more serious in the gravid than in the non gr 11 tate The necessity f r an early diagnosi is opsequently urgent Though occa sional case may recover without operation the termination of a giv n case i even more dubious than in the non pregnant state. I very case is to be operated upon reg reless of the period of ge tation Cases occurring during the pu rperium pursue the course of at pendiciti rdinards. The altered position of the appe lix in pregnancy may cause some lifeculty in the di gnos s The most frequent condition mistaken for appendicutes during preg nancy a right ided pychtis. This affection may so nearly simulate ppen is its and is so frequent that Paddock espec il) emphasizes the neces its of con idening the possibility in every u picious case of appe heat in re especially during preg-

If in its F () tic kidn is and Pregnan y
(() t c i ( lts / / Gd i k
(wit l 4
B) Central I ( dec ( k Geb ri b d s reset

Viotries gin fihe ma con cruing the ul ject and a case ber I by the auth risdescribed nit i ih prient a frimi para thirts n v re lage we confined four ears ago Sin I t r t uff red pair a both i les and a pton f buth Lies It the se enth month f pregnancy be complain d f se ere pains in the right tie nd had hæmaturia gra e toxæmic symptoms uch a heada he s m ting disturbed vi n a d alban una and s gns of cardiac failure the improved timpo anily I llowing a premature labor and ed by a agunal avarean section. On the tenth las nost partum she deseloped a po It On the the sthe day a right rephrect my was petf rme ib tit patie tid i ightren bours lat r s port m t m sam nation res aled b l t al s tic Lide . It reft kifnes wa th Le fa bilds bestanih i abuces The h er wa perme ted with innumerable cysts of a bluish color and varying from the size of a punhead to that of a pea.

50

The diagnostic points are the presence of arrequilerly shaped renal tumers in both sides gauss in the regions of the kidneys, transient hermatuna with signs of throolie rephritis a similar disease of the her and malformations of the genitalia. The treatment must be as conservative as possible. Conception should be avoided as the condition grows worse during pregnancy. The latter should be interrupted exphrectomy should be performed only as a last resort as one third of the cases die following this operation. If possible the treatment should comist of rephritiony and drainage though two patients thus treated died immediately and one su months afterwards from urrenis.

Chenhali W T Uterine Myomata Complicat ing Pregnancy Indials II Go 1913 xxxv 122 By S rg Cynec & Obst

The writer dwells on the diagno is of pregnancy in a myomatous uterus and reports two such cases with successful my omectomies during gestation and ubsequent full term deliveries with normal labors The difficulties of diagnosing pregnancy are greatly increased by the added enlargement and distortion of the organ produced by one or more tumors. It is of con iderable importance that early diagnosis should be made 1 primipara 24 years old was in the third month of pregnancy when she became starmed by a swelling which was appearing in the right ide of the abdomen and beginning to cause pain A pregnant uterus was easily defined with a tumor projecting from its wall The tumor larger than the uteru was round smooth soft easily mo able and slightly tender on palnation in immediate operation was advised because of the rapid growth and increasing softness. The tumor was enucleated The muscular layer of the uterine wall was brought together by a Hal ted suture of cateut the personeum being carefully united and then runf reed by a continuous Lembert uture Recovery was quite uninterrupted and abortion pre ented by a free use of morphine during the hest five days Spontaneous delivery at term oc curred after twelve hours of labor The other patient wa s b par 26 years old At about the fourth m nth f gestation she noticed a peculiar swelling with bladder distres amounting to in resed frequen of an I some pain during micture tion. The well g wa di gnoved as a subserous ris ma in lose co nection with the erist. It was term h rd mit dt t the p tient contemplated early return t her home in the country where ult et f r preper t eater t were limited in case f complate n mmediate rem at I the myoria ber g I sed a in the other se Recovery was un entital with m min e g en luring the fest he divs for feral m The patient went bom f ur weeks la er ant was del' er d at full term with at attends In a die or

Trethowan W : Uterine Fibroids and Prec nancy Australas M Gar 1913 Exxiv 110 By hurg Gynec & Obst

The author discusses the indications for treat ment and gives several case reports. The condition is not very common and usually causes very little harm Occasionally, however the woman's his is in extreme peril Each case must be considered on its ments and treated accordingly with fibroids may become pregnant, and pregnancy delivery and the puerpenum will be normal If pregnancy occurs with fairly large submucous or intramural fibroids involving most of the fundus. operation should be urged as abortion is practically certain The points in favor of operation in nearly all cases are as follows (1) Most of the tumors require operation sooner or later (2) The danger is increased by pregnancy (3) The mortality from operation is low and should not exceed 5 per cent The reasons again toperation are (1) The dancer of pregnancy in these cases 1 not very great (2) In a large majority of these cases gestation is followed by normal delivery and puerperium (3) It is bursh trestment to condemn a woman to stenlity before she has had a chance to bear a child to term He as Scinotz

Lanch F W r libroid Tumors Complicating

Pregnancy and Labor Am J Obd \ 1 1913 kyut 439 By S 12 Co et & Obst Lynch has in this careful article given a complete history of the subject and his considered in a comprehensive way the various effects of pregnancs on the tumor and the tumor on the pregnancy lie has analyzed a large number of the reports of operations for this condition in a critical way and concludes that if indications were present for operation the majority of the case reports failed to show it. The mere presence of a tumor of the pregnant uterus is not an indication for operation. The symptoms must be of sufficient present gravity to justify an operation which has as its greatest probability the s crifice of not only the ext tent pregnancy but all future pregnancies also. The greatest percentage of cases run appro mately a normal course during pregnancy and labor Obstruction of the pelvis even in cases of large fibroids is rarely noted When however obstruction is present castrean section is indicated before there has been much manipulation and the uterus treated according to the extent of the disease, hysterectomy usually being necessary Early interference is advisable in cases presenting multiple growths and infectious processes during the puerperium. As a rule hysterectomy is indicated as soon as the growth is known to be N SPROAT HEAVEN

Norris G. R : Ovarian Neoplasms Complicating Pregnancy and Labor Am J Ob! h Y 1913 lavat. 420 B S 1g G3 ec & Obst IxVIII, 429

infected

Senous complications either during pregnancy labor or the puerpenum may be expected in 25 to

30 per cent of all cases, and from 16 to 20 per cent of the pregnancies will terminate prematurely Companing operation to expectant trestment. Corris finds that expectant treatment of an ovarian tumor discovered during pregnancy carnes a danger to the mother three times as great as that of early operation If operative interference occurs prior to the fifth month of pregnancy the chances of saving the fortus are three tunes as great as those of expectant treatment An ovarian tumor whether abdominal or pelvic in situation recognized prior to the first half of pregnancy should always be removed without delay except when cardiac Lidney or other grave systemic condition contraindicates a general an esthetic. In such cases as promise obstetrical complications the use of local or nitrous oude and ovygen or spinal anasthesia is justified. The abdominal route is always to be preferred since the vaginal route shows a larger number of abortions. The frequency of accidents to tumors situated in the abdominal cavity and the relative ease with which they may be removed without disturbing the uterus and without inducing premature labor justify their immediate removal at any period of pregnancy. In the interest of the child pelvic bound tumors first discovered after the middle of pregnancy should be under continuous observation and so long as there are no symptoms of danger their removal may be delayed until just before term

that time. An abdominal tumor if not a mechanical obstacle may be guarded against its greatest danger during labor namely supture by early and skillul obstettic interference. The patient having been dels ered safely the tumor should be removed during the puerpenum upon the slightest evidence of torsion or infimmatory reaction. Tumors ob-structing the birth canal call for early and defin to surgical treatment Attempts at reposition should only be made by an expenenced m n and then only when prepared to perform an immediate abdominal operation. The best treatment for an ovarian tumor obstructing the b rth canal is abdom inal ovariotomy In clean cases the removal of the tumor is advised preceded by a classic constrain section If an doubt as to the patient a chances from infection of the uterus that organ is then to be removed supravage ally and the stump a chored extrapentoneally in the incision

with the expectation of securing a living child at

W SPROAT HEADEY

heim H Artificial Interruption of Preg nancy and Sterilization in One Session by the Abdomin I Route (Schwangerschafts U terpred-ung und Steril zation eure 5 trung uf abdomi-lem Wege) Hessizier f Geberieb Gyadt 19 3 Sellheim II

By Ze tralbi f d ges Gynak Geburtsh & d Grenzgeb When the artificial interruption of pregnancy and stenlization is necessary it may be accomplished either in one or two sessions. It is more des rable bosever that it be done in one operation as in this way the necessity for two anisabilities is avoided. The author's method of choice is laparotomy which consists in opening the abdomes and uterus removing the products of conception cleaning the uterus will and resecting the tubes. The uterine and abdominal wounds are then closed. The advantage of this method lies in the short duration of the operation the prompt evacuation of the uterus and in the certain prevention of conception in the laboration of the conception in the laboration of the conception of the conception of the laboration of the conception of the laboration of the conception of the laboration of the conception of the conce

Easen Möller E: The Treatment of Hæmorrhage from the Placental Site Piacents Frawia and Accidental Hæmorrhage in the Later Months of Pregnancy Tr Internal Co. J. Med. Load 1913 Aug. By Srg. Gynce & Obst

The discussion is limited more particularly to accidental hemorrhage. A table giving a detailed summary of 29 cases is appended. The conclusions drawn are as follows.

r There are two genetically different forms of accudental hemorrhage One is caused by a trauma and the other by an intosication of the same kind as that which cruses albuminuma eclampism and eclampism.

a The inflammatory and degenerative alters tions which are sometimes observed in the placents the decidua, and the uterine wall are not character istic of accidental harmorrhage and may occur under other incrumstances as well

3 The extensive bleedings in the uterus (apoplexie utero placentaire) observed by Couvelaire and other authors are probably characteristic of the eclamptic form of accidental hemographe

4 It is possible by rational treatment to reduce mortality of mothers considerably

5 The common obstetrical treatment should be employed in the beginning cases of accidental hæmorrhage

6 The plugging of the vagina may be of value in some cases but the author has no confidence in it 7 The value of rupturing the membranes can be

estimated only after trying it in special cases. In many instances it is sufficient and for the other cases it does not prevent later operations. 8 Exceptionally in severe cases with closed

cervix the casarean section is the afest and quickest method of removing danger of it is not necessary to remove the uterus except

by area where it does not contract and the bleeding still continues after the removal of the ovum

Stroganoff W

CAREX CULBERTSON

Remarks Relative to Freund s

Article On Ectatopale and its Treatment of the Basic of \$51 Cases" (Enune Benneri angen über den Article on Prof Freund Über Etkampas und ihre Behand in gu Grund von 551 Fille ) A ch (5 Aul.) 10 5 cx 443

By Zenitzibl i dig e Ovala iu Geburtsh a di Grenzeh

By Zentraibl I d ge Gynal, u Geburtsh a d Grenzgeb Strogateoff details his views as to the treatment of cel mpsia and criticise the view and stati ties

given by Freund in favor of the active therapy The most important points are these

r Infant mortality Freund entirely disregards 24 perforations without mentioning whether they were performed on living or dead children. He includes all the cases of puerperal eclampsia and finally he speaks only of stillborn children excluding all those who died during the first days or week of the puerperium as a result of the operative interference In reality therefore his infant mortality averages 21 4 per cent and not 11 5 per cent as stated by Freund as compared to Stroganoff a own mortality of 12 2 per cent with conservative treatment Zweifel reports 35 cases, and not 25 as stated by Freund of combined treatment with venesection and Stroganoff's method also. He does not state whether in all cases of primary venesection Stroga noff s treatment was employed also 3 The author decidedly denies that the prophylactic treatment is inconvenient hasing his declaration upon his own experience which included nearly 100 cases operative mortality at the Charité is high (121 21 = 17 per cent of which 4-13 per cent can be posi tively attributed to the operation itself) 5 Freund considers the narcotic therapy unreliable yet employs pantopon himself during transportation of the patient 6 Bumm's results with the prophy lactic method are not conclusive as only 16 cases were treated 7 The author does not consider it correct to speak of a narcotic therapy as the decrease in total symptoms and increase of the urine and the d sappearance of the coma surely are not narcoss 8 When an irritability is spoken of as the cause of eclampsia then a therapy which does away with this irritability ought to be the rational one Freund speaks of the increased irritability yet considers the Stroganoff method as the most irra tional o The demand of Freund to deliver the woman at the latest one hour after the first con vulsion is nearly impossible as quite frequently the first attack is seen only by the midwife Therefore cases in which the convulsions are due to other causes may be forcibly delivered as cases of eclampsia aid and further may deliver a patient who perhaps as is often the case has had only a single convulsion in the hurry of delivery asepsis may suffer

The author gives statistics showing that the maternal and inflant mortality with the prophylactic treatment is just one half of that where operative treatment is employed

In conclusion the author states that Freund bases his statement upon assumptions and neglects the facts, and he cites also the results of other authors as Roth Leopold Kapferer krong Zoper ritz and Zwefel Sprage.

Good F L Covertean Section Its Indication Report of Twenty Cases Boston M & S J 913 class 345 By Surg Gynec & Ob t

Casarean section was performed by the following relative indications

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Intrimural fibroid of uterus in a primipara Primiparous placenta pravila Primiparous antepartum hamorrhage Threatened eclampasa in a primipara Primiparous prolyped cord

Primiparous fransverse presentation
Primiparous breech presentation
Arm presenting in front of head in primipara
Priminarous O D P

Twin pregnancy Old primipara

Labor complicated by previous ventral uspen sion

The six remaining cases comprised \( \) pair each of whom had been delivered of a stillborn haby following either a hard forceps or version delivery two of whom had a conjugate diameter of 2% inches and three a conjugate of 3 to 3% inches One has had a second creaters asset.

The author gives a brief history of evic case explaining his relative indication. He believes that the casarean cleatrix is no more susceptible to rupture than normal uterane muscle. C. III. Days.

Heipricius, G. Crearean Section in a 47 Year Old Primipara (kalserschaft an mer 47 jihrige Lestgebärenden). Fish Lit sällik Handi Hel-

sungifort 013 ix 763
B) Zentralbi f d ges. G) 1k Geburtsh s d Grenzgeb

In the case cited by the author the last menetrua tion occurred about five weeks after marriage the first fortal movement bung noticed five months later The woman was 47 years old the husband 70 years old Labor pains began at the normal time, the discharge of the amniotic fluid, one and a half hours eather The true conjugate was 8 5 cm. The patient wanted a living child but as the pelvis was narrow and the mouth of the uterus after a day and a half of severe pains would open only enough to admit one finger the vaginal wall was right and the cervical walls hard and unyielding and as the patient showed no symptoms of infection consarean section was perform d two days after the beginning of pains. The method preferred in the hospital that of incising the lower uterine segment was carried out. The child weighed 3100 gms Recovery was uneventful This is the twenty-sixth case of casarean section with incision in the lower segment of the uterus performed in the hospital Björkenmeim

Pat k R: Strength of Peritoneum and Uterine Sutures After Lessarean Section Reported by the Patient Hersell (Fin Beiting aw Waler gazekarit des Peritoneums od der Uteruszhit sach Sectio craarea von P tenton albei ungefahry 2 1 1801 f Grade of xxxvv 1905 By Zentabil i d ges Grade Geb tak d Greazgeb

By Zentraib i d ges Gynak Geb tab d Greazgeb
In 1909 a patient was admitted to the hospital
In Yenna in an u conscious tate with an incised
wound 15 cm long in the midline of the abdomen
from which coils of the intestine protruded The

intestines were not injured but there was serous fluid in the abdominal cavity and the uterus, as large as a child a head was opened throughout its entire length. The uterine walls were sutured with silk and a drain inserted drain removed the third day An abscess of the abdominal wall developed also infiltration of the parametrum on the right, The fever lasted 6 weeks and the patient was dismussed eight weeks after the operation. On the day when the birth was expected the patient who had had no pains cut herself with one po erful stroke of a rasor severing the abdominal wall and the uterus She said she felt no pain. She answered a question and fell unconscious. The child was drowned in the vessel on which she sat In 1912 she became pregnant again. In the lower third of the scar a bernia developed and gradually became larger The buth occurred at normal time Soon after labor commenced the pains became feeble and extract of hypophysis and secacornin were administered The birth was spontaneous followed in ze minutes by the spontaneou delivery of the placenta No hamorthage occurred and no unusual pain

Scipiades L.: Hebosteotomy nd Preperitoneal Carsarean Section (Hebosteotome nd pripentopraier Kaisenschnitt) Abbandi e d Geb d Geb rith

HOPST TIER

Cyalk q 3 u, 576.

By Zentralbi ( d ges. Gyalk u Geburtsh s.d Grennych

The author compares the results obtained with

the autor compares the results of those of the preparational casarian section to those of the preparation of the preparation of the present of the preparation of the preparation of the preparation produced the district of the preparation and the preparation of the preparation and the permanent migures are greater. I sugnets to the bladder are best avoided by the Dedection method those result may from the sudden groung of the pelms by the Walcher position and by re aforting the trochasters in severe grades of contracted pelms an marked dispreparation of the bread and might be the preparation of the present of the p

All patients operated upon 12 hours after rupture of the membranes or a the presence of temperature up to 37,5 C had feet during the purpersum of the children fis per cent survived, the causes of factal death being trauma to the bead by the bony edges of the perion, suphysically supersum of the perion can describe the perion of the period of the peri

The conditions necessary for hebosteotomy are In multiparre absence of ofection neactness of the lower segment absence of varicosities good soft parts and if possible no attempts at high forceps extraction. The sacro hac joint should be protected no drainage employed and a fixing bandage should be applied In regard to the operations performed in the interest of the mother preperitoneal casarean section showed only a greater morbid The relation between the fortal head and the size of the pelvis must be determined from the nature of the utenne contractions as version could be performed twice by the author as against one operation in the presence of intact membranes with a conjugata vera under 8 cm Once there were signs of thinning of the lower uterine segment with only one finger dilatation Latzo s method with a longitudinal incision should be used as the Pfannenstiel incision does not increase the space. The procedure is easier if the bladder is filled but it should be emptied before the peritoneal reflection is loosened and brought out of the way To prevent peritoneal tears a careful longitudinal incision should be made, while blunt dissection and care must be exercised when the peritoneum is reflected. Filling of the bladder and elevated pelvis position will obviate the necessity of loosening the peritoneum too high The excellent convalescence is due to the fact that the bowels are not exposed and that the utenne mession is low down

Drainage if necessary should be carried out through the vagina. Three subsequent pregnancies in these women were terminated by casarean section later accompanied by tibal sterilization.

Mone

Scherer A Th Value of Bacteriological Examinat ons in the Treatment of Abortion (Leheteninyado bakteriologia usgálat etelések kez lésében) Oross H II p Budapest 9 3 1 337 By Zentralbí f dges Gynak u Geburtah d Grenzgeb

The author made bacternological examinations of the lochia of auty cases of afebrile abortions and obtained the following results. Hiemolytic strepto occu were found in eight cases non hemolytic streptococci in suteen staphylococci in twenty colon bacilli in two pseudo-diphthera bacilli in one and various other bacteria in four. In nine

cases the lochia were sterile

Winter's method of treatment is not acceptable in general paratice because (i) the results of the bactenological examination do not give a positive bactenological examination do not give a positive indication (a) in most cases the physician in called on account of profuse harmorrhages and he cannot therefore postpose the treatment for the two or three days that are necessary to obtain a result retainent in materially lengthened, and (a) the entire procedure is too complicated for practical purposes

The treatment of cases with hemolytic strep tococci and their control by means of repeated vac cunations cannot be carried out by the general practitioner Friovesi

#### LABOR AND ITS COMPLICATIONS

Kemp D C Ovarian Cyst Exposed per Vaginam During Delivery by a Midwife Lancet Lond 013 ckxxx 865 By S rg Gynec, & Obst

The author gives a bine history of a Tamil Mohammedia woman seed so in whom an ovarian cyst which weighted i lb. no oze scapped through a rent in the posterior form to the left of the cervix. The intestine was pulled out during the examination made to determine the nature of the tumor. The patient recovered following the removal of the tumor.

Kroner M Birth n Cases of Occipital and Dorsal Meningocele (Über den G burtsverla f bei occipitalen und dorsalen Meningocelen) Bert s Geburtik u G, &k 9,3 xvl 363

By Zentralbi f d ges Gynal Geburtsh s d Grenzgeb

The author cites cases collected from the hterature and two of his own at the Rostock University
Clinic and points out that occipital and dorsal
meningocele is not only a serious complication in
labor but that it is an important factor in causing
facial and frontal presentations

Hom.

#### PUERPERIUM AND ITS COMPLICATIONS

Von Red ng A An Unusu I Cate of D fluse Ne cross of the Puerperal Uterus (Lin ungewohnlicher Fall ausgedeinter N kross des puerperales Uterus) Cor M / kress Arr 9 3 xl 6g By Zentzall f d ges Gynak u Geb riah s d Grenzgeb Von Redung reports the case of a patient in whom he

removed the placenta by Crédé s method one hour after labor The patient had a severe hamorrhage and became almost pulseless and very anamic. She recovered however but eight days after labor an internal examination was made on account of high fever and a putrid discharge. The parametria were negative. The uterus was the size of a child a head hard movable and not tender to pressure The cervical canal was about one and a half inch in diameter and a mass was felt above the internal of which entirely filled the uterine cavity. This was firm in consistency had an uneven surface and was intimately adherent to the uterus. An abdominal total extirpation was performed eleven days post The patient died almost immediately partum after leaving the operating room

On microiscopical examination of the uterus an external firm and an internal porous dynomo of the uterine wall could be seen. The external half was normal and not infiltrated but the internal porous half was necroit: with fatty degeneration of the muscle fibers and blood vessels. In spots a purulent infiltration of the muscular layer was noted. The endometrium was completely absent A few rem names of the placenta were found at the postenor that the postenor was the placental were found at the postenor that the postenor was the placental the postenor was the process of the placental way to the placental formation to the microscope. No decidual formations were seen

Watkins, T J: Puerperal Infection A Study of Some of the More Important Peatures of the Disease, with a Review of the Cases Treated During the Last Eight Years Am J Obst N Y 1013 IXVIII. 420 By Surg Gynec & Obst

In this article the author reports his results in the treatment of 100 cases of puerperal infection such as come to the hospital in a large city Ninety one patients recovered and nine died. Seven of the fatal cases were hopelessly ill with generalized peritoritis on admission. One had large multiloc ular abscesses which though incised and drained terminated in perstonates and death. One was a case of pyremia with metastatic abscesses. The effect of outdoor treatment is especially emphasized. Supportive measures, good food sleen and elimination are the main points in the therapy

He tersely summarizes the subject as follows r Puerperal injection is essentially a systemic disease and the treatment should be chiefly general a The only general treatment of established value as yet is the use of remedies to increase the body resistance and thus favor and hasten the development of systemic immunizing bodies 3 Retained products of conception should be left to escape spontaneously except in case of hemorrhage, when gause packing should be used to hasten separation of retained tissue and to atimulate uterine contractions 4 Pelvic inflammatory exudates usually tions 4 Freite innaminatory exposes some disappear by absorption. Only exceptional cases require incision and dramage 5 Suspected cases of free pus in the abdominal cavity indicate vaginal section to determine the disgnosis and the indications for treatment 6 The treatment which re mains in quite general use is much more dangerous than the disease N SPERAT HEAVEY

Grone Metritus Dussecans Puerperalis (Metritus Dusecans Puerperalis) Versasmi d Nord chir Vers n Kopculi 19 3 By Zentralbi f d ses Gynal. G burteb a d Grenageb

The patient was a primipara 28 years old who was delivered spontaneously without internal examination being made. A small episactomy had been performed which healed normally. A few days later the patient was seized with fever and the discharge became foul. There were no sub jective symptoms but a definite anamia was pres ent. Twenty two days after delivery the uterus was perforated during an intrauterine examination and was immediately extinated. The patient recovered Upon section the uterus showed smaller and larger areas of necrosis which in some parts almost reached to the serosa

Microscopically extensive necrosis w s found and the connective tissue showed extensive round cell militration he decidus o other signs of mucosa were present and nowhere could be found tells of foctal origin. The interesting part of this case is the fact that it probably was a case of auto injection S A GAMMELINEZ

#### MISCRLLANGOUS

Goldstine M T : Remorrhade in the lev born. detine M 7 t 1500 to 170
H was M J 1913 xx1 170
H3 Sung Gynec & Obst

The author discusses the etiology and treatment of this condition, and reports a series of cases treated by injection of horse and human serum and of whole

unclotted human blood

The writer's technique for securing blood and Leeping it has been as follows. A large vein is secured in the arm bear the elbow and a good sured needle inserted The blood is allowed to flow into test tubes large enough to hold 50 cc and with a wide mouth so that the serium can be easily with drawn from the tube with a syringe that will hold 15 to 20 cc of serum One test tube has been as a rule a sufficient dose for one injection and need not be used again. This protects the blood against infection that might occur if a large bottle were used and the cork removed several times. When whole blood is used it is withdrawn with a syringe and quickly injected into the patient. The injections were made subcutaneously into the back just below

the scapula The following conclusion were drawn
The etiology is still doubtful
The use of blood strum is a great and de

cided advance over the use of drug 3 Human serum is to be preferred to animal serum as it does not produce any undervable symptoms, may be used as often as necessary and d not sensitize the patient against the administration of more serum

4 Injection of serum is better than transfusion as transfusion is a very difficult procedure and one transfusion does not always stop the bleeding C D Hotses

We d abaum G Prophylaris of Blenorrhota Neonatorum (Zur Blenorrhoeprophylare am Neu geborenen) St Peter b med Zisch zezvui, 134

By Zentralbi. f d ges Gynal. Geburtsh d Orenigeb The author puts forward prominently the blessing of Credé s method in the prevention of ophthalmia neonatorum as a result of which this disease has almost entirely disappeared from institutions. In contrast to this is the fact that ophthalmo blenor those has not decreased. An investigation ordered by Crede Horder showed that 12 39 per cent of the inmates of thirty large institutions for the blind in Germany lost their eyesight from blenorrhosa The causes for this coording to the author are an increase in the spread of genital diseases the rapid growth of large cities, etc. The silver preparations used have the desadvantage of instability. The irritations produced by the use of silver nitrate are due to its decomposition which may be prevented by the addition of potassium mitrate A to per cent solution i potassium nitrate is not irritable to the conjunctiva Weidenbaum recommends of or silver nutrate and or pot nutrate which is easily soluble in water

Opitz Ma a Mather a Milk he Injurious to Her Own Offspring (Lannd M kh der eigenen M tier für i 5 gi schild ha ) Drut ch G ell ch f G of i ii te 1013 M )

By Zentrall I I ses Gynak u Geburt h s d Grenzgeb

The author is of the opinion that the milk of a woman who is suffering from nephritis may undergo certain changes that will render it injurious to the child This is easily conceivable in the light of Abderhalden a views on metabolism In a case of the kind referred to such changes could not be proven but clo e observation of the child consinced the author that the milk was injurious Sulden changes of temperature in the new born as de scribed by Aromer are relatively common inantion fever de cribed by pediatricians is not commonly ob ersed in the early loss of weight of these infant but rises of temperature due to some di turbance are frequent Mother s milk honever is but rarely the cause. It has taken considerable time to convince the profes ion and the luty that nothing can take the place of mother's milk and too much stre a laid upon isolated cases in which it is injurious may cause much harm

B con ( 5 Th I seentlals of Sinitarium Treat ment of Tubs reulou | Craildae and Puerperae nd Th ir Childr n | J 4m 3/ A 013 | 1 75 | B 172 ( cc & G) | 1

In the United State about 32 000 tuberculous women a fir gravint ein year and between 44 000 and 44 000 when I fell bearing age it of tuberculous. The unit of the tubercul is preparate in a de with a year of their labor UI to 000 hill n under five y are who it cof tuber ull u m the ". I here fourth a e born of tuber ull u m the ". I here data how a purt but not all fith i r g fregnan upon the tuberculous the state of tuber ull u m the ". I here data how a purt but not all fith i r g fregnan upon the tuberculous states."

at profit m tra clar 1 puerpere n titu e an mport at f tr k ing l e the germ of t ber ulou and pr nt g the rad cate n of the d sease an i this t ha i thee recognized suff ci nth in the past th t pe m gement of these ales wh h 1 he won an through labor and the ser ! ) and br in from t t to t E m eth t a g vod con liti n ul i 1 5 her i thee pg t lirese t tte FII thitm to it pare t and wasts L feet ! It in estates los wat h pregn the t ghofth 4D 1 li ne rus Imi t ef e Lihrt lut fill withat the pat th ghiathn u receipt ngh I the nk f tect les 11 lim a fth p men mt p a far It a fth desse w ı t COPIE it e th separat the b i mitt tib re f l rg Deces a runt t father f the 3 357 101 1 et ugite . . : ~

The obstetrical management above outlined can be carried out in a private house only with considerable difficulty. The labor can be conducted better in a maternity hospital. The conduct of the latter part of pregnancy and a long puerpenum however cannot be provided in such a ho pital and there is need, therefore of a maternity depart ment in the tuberculosis sanitarum.

The author gives a plan for a maternity ward and discuses the management in detail the later discusses to describe its workings and the results obtained EDWARD L. CORVELL

Yon Gutl id F: The influence of Physical and Social Conditions of Viothers on the Vice of Their Prog. ny (Uber der End. as körperlicher und sousier benklim se der Mütter a. der körpermasse there Neuerboren) 21 chr. f. Gebort k. s. Gynat 1013 i. p. 266

By Zentra'bl f d ges Gynak u Gel rish s d Grenzgeb

The author same tigation tool, sooo normal cases into con ideration and the factors involve (a) Maternally—age number of pre nances occupition octal state position in utero (b) infantile—length wight greatest circumfer nee of shall.

The conclusions arrived at are: Y Wothers of the same ge give birth to bogs that are larger in every my thin girls: 2 Very young mothers can give birth to a ringe use lindant; 3 Mothers from 31 as years fage give birth to the largest childre. 4 child in of sevants are larger than those of factors girls the former tanding higher socially. 5 Length weight and size of the her! are in pri portion to the length of the mother abods, are larger than girl. 4 child with a good initial weight has brighter to the larger than girl.

to bi rility and Pregnancy I tend J S g

The causes of st rights are taken up first and then the various operative procedures on the cervia uter. The author formulates his coredu ions as follows.

1 The diseased is abnormal cervis is one of the most frequint causes of tend to in the female 3 Whin tinhis a due to anteress in it is be t

corrected by the Duile peration

3 The direct rib air releved in most cases

I li will the operation and premanes occurs in

f li wig the operation and pregnancy occurs in 4 pe cent of the ses 4 La crate of the cere a should not be inter

i rein the les the cased interpretent ar i

t In ion a d ulcers in a of the cersix r t cli g read! to local medicinal treatme t call f r mp tation

6 If lysmer ribra a 1 leu orthera be present n these ases amputat on of the cert a milite e the pain dip thild differ nativat copere t fifthe sea 7 Labor seems to be rendered more difficult and prolonged in the cases following trachelor rhaphy and to be made easier and shortened after amputation

8 Conception is just as frequent following am putation of the cervix as before

Engelhorn E The Modification of the Hæmo globin Catalyse During Pregnancy the Weichardt Resction (Über die Beundusung des Hamoglobukatalysators der Sch angerschaft Weichardische Reaktung) Mässeke med il debende

913 lt, 1195 By Zentralbi I d ges Gynak u Geburtah d Grenzgeh

Using Wachned's method for determining the difference in the catalying power of blood difference in the catalying power of the state of the catalying power of the state of the catalying his state of the forms were brighter than those for the latter. His observations were obtained from 105 cases. A case of calampas described as very interesting. At the beginning of the attack the titer was higher than that of the non pregnant state (105 205). As to whether in any power of the bidded has religiously the catalying power of the blood is in creased in pregnancy.

Veit J The Serum Diagnosis of Pregnancy (Die Serodiagnostik, der Gravidität) Berl Min Hakushr 2013 l. 44

By Zentrilli I d' ges Gyack w Geburts d'Grangele beit ès entitled to a place in the development of the Abderhalden reaction for it as he who suggested the migration of placental elements anot the maternal blood. He substantiated Abderhalden a observation even for early cases of pregnancy and considers the reaction as a placental origin the oversity of the reaction as a placental origin the oversity of the reaction and a placental origin the oversity of the reaction and of precipitins is quite sandagous, and it is possilve in animals in which the chornome will are not immersed in the maternal blood. Here the chemical elements of the chornom epithelium pass a through the lumbatur and the maternal Cushinova.

Schiff E Is Abderhalden a Dial zation Method of Use in Duffe entual D agnosas? (Ist das Abderhaldensche Dud) serverfahren different dag nostsch verwertbar?) Deutzie Ge elizik f Gynak

Halin, o 3 M 7 p. M 7 p. M 1 p. M 1 p. M 1 p. M 1 p. M 2 p

the sera were not in a good condition because of hemolysis or prolonged exposure to the temperature of the room. In twelve cases the behavior of pregnancy serum towards extremomatous tissue was investigated. In all of them the reaction was negative.

Heaney N S and Davis C. H: Abderhalden a Test of Pregnancy Am J Ohn N 1, 913 lxviii,429 By Surg Gynec & Ohst

In this article is given the experience upon which the test is based the technique of the performance of the test, a résumé of the literature and the results of the authors experiments

Twenty-eight individuals were tested by the dialysis method, 17 according to the latest technique Of the 7 5 were healthy non pregnant individuals one of whom reacted positively Of 7 pregnant women 2 failed to react Of 5 puerperal women 2 were from the late puerperal wo

rium and reacted negatively the others were early and were postuve

The authors also tested the digestive action of a senies of pregnant acts upon W tepeptone solution and placental suspension. Serum was mixed with the persons solution or placental suspension. Serum the person of the property of the person of the variety of the person of the variety of the person of the variety of the variety of the person of the variety of the pattern of the pattern of the pattern of the person of the variety of variety of the variety of variety of the variety of th

Lichtenstein Abd halden Serum Reaction (Zur Serumreaktion nach Abderhalden) Vilnehre

sted Il chusche p 3 lx 14 7 By Zentralbi f d ges Gynak Geburtah d Grenzgeb Lichtenstein finds the dialysis method satisfac tory He examined the sera of 4 cases of pregnancy ancluding 6 tubal pregnancies and 4 eclampsias and 34 cases of non pregnancy Three tests were im properly made and are therefore excluded The reaction disappears during the third week f the puerperium. All cases f non pregnancy gave neg ative results. Umbilical blood and spinal fluid failed to reduce placental or clamptic placental fissu Eclamptic serum reduced eclamptic and normal placental tissue very rapidly The action of normal serum was not very different from that of ephritis in pregna cy, when reacting on normal or eclamptic placent The amniotic fluid of the non eclamptic and ascitic fluid from the non pregnant gave negative reactions. In spite of the exactness of the reaction one should not be governed solely by it in making a diagnosis. The author, observatio s sub ta trate Abderh Iden claum that it is n t necessary to have a flood of chorionic villi in the maternal cir GRAEUPAEL. culation to get a positive reaction

Mayer A: The Therap utic Use of the Normal Serum of Pregnancy (Über die therapeutische An wendung von normalen Schwangerenserum) II s-chen med Wehnschr 1915 iz 14

By Zentralbl f d ges Gyn L u Geburtsh s d Grenzgeb

The author suggests the use of the normal serum of pregnant women in cases of intoxication during pregnancy He then discusses the successful use of such serum in cases of dermatoses and eclampsia In the latter he now gives the serum intradurally instead of intravenously. He made this change in the administration because these patients have such marked cerebral symptoms Serum therapy can be appl ed also to puerperal sensis

Since many puerperse have hemolytic strepto cocci in the lochia without symptoms the author holds that their sera are analogous to those of convalescent cases of sepsis Three cases he believes substantiated this assumption. He uses the scrum also in gynecological hamorrhage and anæmia

RLNGE

hs A Experi nees with Pituglandol in Obstetrics (Erlabrunged mit Pituglandol in der geburish likichen Pravi) Zisthr f Gebs ish u. Fuchs A

G3 &k 1913 kru 517 By Zentralbi i d ges Gynak u Geburtsh d Grenzgeb

The author used patuglandol in six of his obstet rical cases once each in atony in an old primapara with frontal presentation, in breech presentation with early rupture of the membranes in an artificial premature labor as an adjuvant after the introduc tion of a bourse in placenta prævia lateralis to hasten rupture of the membranes and in a ten weeks abortion to hasten expulsion of the products of

conception In all of these cases except the last one the myec tion was always accompa ied with definite success and never with any detrimental effect upon the mother or the child The author injects z ccm of pituglandol intramuscularly and warns against overdosing to which he attributes the observed cases of cramp like contraction of the cervix after injections of hypophyseal extract Since several authors have reported a lowering of the fortal heart rate after an injection of the extract it is not advisable to employ it in threatened cardiac weakness except when ready for immediate extraction. In cases of atony 1 which there is prolonged contraction of the cervix it is advisable to administer morphine or pantopon to put the uterus at complete rest before gaving the injection of pituglandol. In the employ ment of the extract during the early puernerium all unnecessary handling of the uterus is to be avoided in order to prevent untimely contracting Sieben

Watson B P tson B P Pitultary Extract in Obstetr cal Practice C ad W A J 19 3 730 ມ່າ ໝ່ຽ່ງເ 739 & Obst

Watson gives credit to Bell for being the first to use pituitary extract a obstetrics lie discusses the anni my and phys logy of the gland and the act on

of its extract. He prefers the intermuscular injection and a standardized dose Several cases are reported in detail where the extract was used oppor tunely in slight pelvic contraction in persistent occupito posterior position of the feetal head in twin pregnancy in induction of labor and in placenta pravia. The author regards its use favorably also in post partum abdominal distention and in urinary retention thus avoiding enemats and cathetenza tion His conclusions are

r Pituitary extracts have a powerful effect in inducing and strengthening uterine contractions.

2 The type of contractions induced is similar to the normal although at first there may be a tenden cy to prolongation of the pains
3 Such prolonged contractions result in the

slowing of the foetal heart but the child is seldom

4 When given in the late part of the first and in the second stage of full time labor the polarity of the uterine contractions is not interfered with but in early abortions and in the first stage a simul taneous spasm of the os may occur

The chief field of usefulness of pituitary extract is in the first and second stages of labor when there is delay due to feebleness of the pains alone or com bined with other complications such as malnosi tions of the head malpresentations, multiple pregnancy slight narrowing of the pelvis etc

6 In the induction of abortion in the treatment of abortion already in progress and in incomplete abortion, its action is so uncertain that it is not to be recommended except in cases where the os is widely dılated

7 In the induction of premature labors its effects are uncertain but if sufficient dosage be given they may be good

8 In the induction of labor at full term and after better results are obtained than in premature cases 9 Pituitary extract gives good results in many

cases of post partum hæmorrhage but is not superior to the various preparations of ergot has however the power of sensitizing the uterus so as to allow these preparations to act more powerful ly and the combination is most effective

to It is a useful adjunct in the treatment of placenta prævia, used in conjunction with rupture of the membranes the use of hydrostatic dilators, or turning CAREY CULBERTSON

Popi iski L The Hypophysis and Its Active Principl s (Hypophy is nd thre Priparate in Verbindung mit thren wirksame Substanzen) Berl

Il ch sel 9 3 1 56 B) Zentralbi i d ges Gynäl u Geburtah d Grenzgeb

Substances increasing and decreasing the blood pressure are found in the hypophysis Pituitrin and pituglandol increase the blood pressure while physin decreases it All these substances however have been used with good results to stimulate labor pains. It is remarkable that substances which in their physiologic action are directly antagonistic to each other should cause the same action on the uterus It must be emphasized that so far not a single resson as known why these substance excile labor pains II the hypophysis act in this manner then the same action must be expected from all the other organs which contain sacolitatin as well as other organs which contain sacolitatin as well as a superior of the substance of the conlabout the question of the stimulation of the locations of the superior of the substance of the locations of the superior of the substance of the locations of the superior of the substance of the locations of the substance of the substance of the locations of the substance of the substance of the location of the location of the substance of the substance of the location of the location of the substance of the substance of the location of the location of the substance of the substance of the location of the loca

Spalding A B The Value of Abdominal Measurements in Pregnancy J Am M A: 93 lz: 746 By Surg Gyner & Obst

The author has reviewed over two thousand records in reaching his conduction. The measurements were made with a tape measure one had being placed on the upper border of the symphysis and the other on the enaform cartilage. The uppermost mappin of the fundus of the uterus was located and read off the tape. An effort is made in this paper to estimate the value of these measurements in so far as they relate to the size of the unborn child and to the probable date for delivery. The author discusses also the various rules laid down by other men in the past lew years.

town by other men the batter to weaphs of the a table presented as the delays in a sense of so labors where the first delays in a sense of so labors where the solid literane are was carfully observed by the batter of the laboration of the batter of the solid literane are was carfor the bables by between 1973 and 398 wights. These figures are considered a rough standard for a serge normal bables. In eapthy wire cases, in free of which there was twin delayery the fundum measured between \$3 and \$4 z cms sud the average weight for the bables was between \$355 and \$4 z cms. for over maturity. In fifty-five cases the fundas measurements were found to be 29 and 31 cms and the average weight for the babes between 2125 and 2930 gms. This is the standard for im perfectly matured babes.

With experience one can utilize these measure ments to advantage in certain cases of toxemia. nephritis, heart-disease etc to determine the best period for the induction of premature labor or of the advisability of inducing labor at term Unfor tunately however the possib lity of error in excep tional cases precludes the utilization of these measurements in the management of contracted pelvis This is due to the fact that the weight of the child with the same abdominal measurement may vary in exceptional cases as much as 1 or 2 kilos. A great deal depends upon the care with which the meas urements are made on the condition of contraction or relavation of the uterus the skill in estimating the degree of settling the thickness of the abdominal walls and the accuracy in diagnosing such conditions as hydramnios and multiple pregnancy

In another chart the autifor presents measurements of the uterus made at various weeks of pregnancy in a sense of 411 cases. These patients gate both to babase of normal weight within seven role. For measurements of this land the following rule is given. Measure with a tape measure the height of the funders above the symphysis in centrel to the following allowance for setting when present and add to measurements between at and 30 cms. 3 to measurements between at and 30 cms. 3 to measurements over 37. The sum will equal the probable week of pregnancy.

EDWARD L CORNELL

# GENITO-URINARY SURGERY

#### KIDNEY AND URETER

Luckach F Recent Examinations of the Adrenal Capsules (Neuere Untersuchungen über die Nebennierta) Prog med Webnicht 1913 xxxvin 365 By Zentralbi f d ges Chr u i. Grenzgeb

The adrenal capsules of horses and cattle fed to rate proved to be poisonous particularly the ad renalm (marrow substance). On o cadavers the adrenalm content was determined according to Folins method. In acute infections the adrenalm cannessed indepthena find nephritis it was increased and fine thronic infections (tuberculous aronal) hiemorrhage and tumors) it was diminished. An examination of the results obtained by Robusson who claimed that he could determine the sex of the foctus from the adrenalm content of the unne of the mother does not yet permit any definite conclusions. The article closes with the report of two cases of adrenal tumors.

Gradinescu A v : The Influence of the Supra renal Capsules upon the Carculat on of the Blood and the Metabolism (D r Enflues der Nebenneren auf den Bit threslauf und den Stoffwech sel) Arch f d ges Physiol 9 3 cb 187 By Zentzhil f d ges Chr u : Grenzgeb

In numerous experiments with cold-blooded animals and mammals that are reported in detail by the author the influence of the extirbation of the suprarenal capsules the extiroation of the adrenal capsules and the administration of adrenalin was determined. The results obtained were as follows The remov 1 of both capsules in one operation caused death within 10 hours in the case of does in 48 hours in cats and in 7 hours in rabbits The extirpation of one adrenal carsule was not fatal After total exturpation of the adrenal capsules the number of erythrocytes in the peripheral blood rises slowly to double the amount this is the result not of a new formation of red blood cor puscles but of the transgression of large quantities of blood plasma into the tissues and serous mem branes The e amination of the physico-chemical properties of the plasma reveals no changes and the quantity of water contained in the muscles remains unchanged The blood plasma with all its components therefore goes over into the tissue Furthermore the total extirpation of the adrenal capsules effects a decrease in the interchange of gases without changing the respiratory quotient. The introgen quotient shows an inclination to sink the temperature of the body sinks consider ably the lymph cuculation is retarded the lymph formation is diminished Adrenalin injections, on the other hand effect an increase of the discharge of lymph from the ductus thoracicus a rise in tem perature in normal animals and death from hy perthermia Extracts and adrenalin affect also the endothehum of the blood vessels because the m filtration of the connective tissue effected by artificial circulation in the frog is prevented by these sub-stances If adrenalin is brought into the artificial circulation or directly upon the tongue or mesentery of gumes pigs it causes a contraction of the blood capillaries and retardation or inhibition of the circulation From the abolition symptoms and changes caused by adrenalm the author concludes that the adrenal capsules serve as regulators of the intermedial metabolism The metabolism between blood and ussue depends upon the changes in the lumen of the capillaries caused by the secretive products of the adrenal capsules and the contraction of the endothelium SALLE.

Childs S B and Spitzer W M: Röntgenographic Study of the Normal Kidney Its Pelvis and Ureter J Am M Ass. 29 3 in, 915 By Surg Gynec & Obst

Diversity of opinion as to interpretation of skiagrams of kindney variants firing a standard by study of a group of normal cases. By normal cases are meant, cases with negative history absence of genito urmary' symptoms, and giving negative findings in urmalysis and for all points above ursteral orifice negative findings on cystoscopy and ursteral cathetesization.

Technique Rontgenographic catheters col largol 8 to 20 per cent gravity pressure of two feet using 30 ccm bureties injection to the point when pain is complained of varying from 4 5 to 15 ccm (greater volame being considered pathognomonic) steroscopy with uniform focus and rontgenographic technique

Fradings Mobility (excluding respiratory) e to 3.5 cm Pelvis either single or double chices number 3 to 6 upper border conver lower concave sheence of concavity abnormal. Catheter clougs to conver border. Ureter shows sinde variations super control and position kinks angulations and sparent constitutions in normal cases. Alterations may be due to variations in tomis. Laxity marked in multipars: Pain shock and temperature the result of overdistention, especially rapid distention and not so much dependent on the drug or percentage. Care in mection will reduce these difficulties so as to provoke no disagreeable complications Suphassa land on stopping inspections at onset of

For after treatment he recommends morphine

and small doves of whisky well diluted the last as diuretic. The report includes to ca es (20 kidneys) with table and skingrams Loris L. Ten Baoren.

Branach W F: Clinical Observations on Essential Harmaturia. J Am M Ass 1913, let 016
By Sure Gree. & Olas

The term "essential" is applie I here only to those cases in which there is neither chairal evidence of renal insufficiency visible organic change in the tenul parenchyma nor evidence of renal infection.

Branch analyses yr cases from the Mayo chink of which 50 were operated upon. Males were affect ed in y per cent of the cases most of them occurring between the ages of ap and y of The right side was involved in about two thinks of the cases. Hematu was had begun over fiften y wars persons to the time of the operation in 19 per cent of the cases to the most cases in was of about a year y duration. In the unoperated cases the time of onest was considerably more creent. The physical fludings were according to the control of the cases and part cells in some face cases and part cells in some

The author discusses at great length the differential dispenses. Other lessons to be considered are chronic nephriti infectious nephritis bleeding py citis neoplasms renal tuberculous inthis is and renul varie. Differentiation in all of these con

distons would appear to be possible Nephrets my has cuted fourteen ca es nephrot only gives far less initialetory results. The results of palliative treatment con sting merely of catheterization of the affected side with or suffout the injection of methyles blue a colloidal 3 et salt or equephring gave permanent relief in but four cases. In the others, hematuma appeared again

In the matter of trainment Brax in lays special emphase upon the difficulty and importance of deciding upon the presence of a mult and cityl renal neopla in When the hematura has in capacitated the patient, or when acceptant at good results obtained from nephrotomy would by the second of the contract of the contraction of the contraction of the contraction of the contract of the contraction of

The etology is excelully considered Arphitis seems now to be regarded by most authorises as the probable causative factor. But in Branch's opinion the evidence against this is sufficient to enable us to exclude it in most cases. A satisfactory explanation of this type of hemnitures is jet to be given.

Cosper L.: The Di gnosis of Bilateral R nal Tuberculosis Zur Diagnose de doppeisaugen Ner entuberkulose Deutsche med fickarts 913 zz k 1140 By Zentrahl I d ges Chr u Greangeb Before the Berlin Sungaca Society Ca per gave a brief review of the progress made in the diagnosis

and treatment, especially of renal tuberculous since the introduction of ureteral cathetenzation and functional kidney tests. The mortality of nationts nenhrectomized for tuberculous lately is only 2 per cent In spite of this success, however the present views must further be revised principal ly in regard to the diagnosis of undateral or bilateral kidney tuberculous. The former view that a sediment free and apparently normal urne which proves to be tuberculous in the gamen pig moculation mu t originate in a tuberculous kidnes no longer holds good From his own experience and from careful investigations of klelleuth Carper regards the fact as proved that pure excretory tuberculosis can occur only when nephritic symp-toms are also present because the nephritic ludney in contradistinction to the healthy Lidney is permeable for tubercle bacille. Hence the former radical standpoint that in kidney tuberculosis the finding of tubercle bacult in the urme of the second kidney forbids an operation must be modified so that the presence of tubercle bacilli produced by a slight nephritis of the one Lidney is not a contra indication for a nephrectomy of the other Only when the tuberculous process of the second kidney is absolute ly settled by the regular and abundant finding of leucocytes and erythrocytes as well as by the duminished function of the second kidney is an operation to be avoided

Aspenmenter G Tuberculosis of the Kidner Am J Obst h 1 19 3 kmm 419 B) burg terror & Obst

From a review of the literature an I an analyse of 6 s cases of his own Kapsammer deduces that tuberculouss of the kidney is as a rule, unalteral tuberculouss of the kidney is as a rule, unalteral that men suffer from at more frequently than women and that it is found on one sade as frequently as one of the other The brit is uppoint and officiations one of the more infrequent as impriors of the disease and is more frequently seen in the early than in the later stages. Asparimer believes that many of exceeding the cessential themsterms are a reality cases of very early tuberculous exploration of the hidney are sufficiently the lesson to the control of the hidney are the control of the hidney and the sufficient of the lesson to the less

Pus is regularly found in the urine but when the urine is alkaline the chances are against tuberculous

Paus is not constant in the symptomatology and may even lead to unprice not the unafferted kidney when the tuberculous kidney may be producing to paus. The chief and most exact method of diagnosis is cystoscopy with either text method of diagnosis is cystoscopy with either exact method of diagnosis is only complete when the condition of both kidneys has been accurately determined to the condition of both kidneys has been accurately determined to the condition of both kidneys has been accurately determined to be conditioned by the condition of both kidneys has been accurately determined to be conditioned to the condition of both conditions and protection when other conditions are provided to the condition of the conditions are not for the continuous and protection when other not flord for cents deswhere and reen may be not forced for cents deswhere and reen may be

considered in the presence of tuberculosis of the opposite kidney providing the disease is not extensive enough to prevent its proper functionating N Sproat Heavey

Rupprecht: Tuberculos s of the Kidney and Bladder Including Urogenital Tuberculosis (Über N ren und Blasentuberkulose er schless) ch der Urogen tall be kulose) 31 nehen med R chnich 1913 b 450

1913 br 450
By Zentralbl f d ges Chur i Grenzgeb

Tuberculosis of the kidney is caused not by an ascending infection from the genital tract but by a hæmatogenous miection from some extrarenal tuberculous focus It is the larger emboli which contain numerous tubercle bacilli that produce kidney tuberculosis the circulating bacilli are excreted Usually only one kidney is involved but in one half of the cases the other one becomes affected later probably also by the hæmatogenous route More rarely tuberculosis of the kidney spreads by the lymph stream to the permephric tissues or to the retropentoneal lymph glands much more frequently it spreads downward involving the ureters and bladder. Its development is insidious and without symptoms at first symptoms for a long time point to the bladder and not to the kidney as the seat of the trouble At first there is polyuma and pollakiuma later tenesmus and pyuma. In such cases careful bac terrological and prological examinations are necessary and if the other kidney is found healthy the diseased Lidney should be extirpated. Left un treated Lidney tuberculosis causes death in five to ten years by involving the bladder the opposite kidney etc

Apparent spontaneous cure may occur in rare cases as the result of obliteration of the diseased ureter and gradual encapsulation and atrophy of the closed tuberculous kidney Usually how ever these patients finally die of bladder involve ment nephritis of the other Lidney etc Several nephrectomized women later bore healthy children If the secondary bladder tuberculosis has not ad vanced too far at the time the nephrectomy is per formed it frequently heals spontaneously as does the tuberculous areter that is left behind. Tuber culm injections have not proved of value in renal tuberculosis but after nephrectomy it has frequently aided in overcoming the remaining tuberculosis of the mucous membrane of the ureter and bladder Patients suffering from renal tuberculous are Numerous bacilli are excreted in open cases their urine and they therefore are infectious

Wildbolz II Th Surgery of Tuberculosis of the Midneys (Churupe der Nierentuberkulosi) Ven deul h Chr 9 3 vi By Zentralbi f d ges Chi u Grenageb

Rover

Chronic tuberculosis of the kidneys appears fre quently as a independent or primary disease al

though from the anatomo-pathological standpoint in particular it must be regarded always as a secondary disease. In 10 per cent of the cases of tuberculosis of the Liddeys the affection is bularranged to the kidneys is almost exclusively unitarity than the demander of the kidneys is almost exclusively unitarity of the marrow and the adjoining rates of the pelvas of the kidney soon become involved. In the advance stage groups of tubercles are to be seen upon the surface of the below:

As to the pathogenesis Steinthal's old theory that the Lidney is infected through the blood system is now generally accepted and there is no doubt that the disease spreads down the urman, tract as

was suggested by Baumgarten

In the diagnosis the examination of the urine is of greatest importance albumin pus and blood are often found though sometimes only in small quantities. The examination for bacilli when performed carefully gives positive results in about oo per cent of all cases The usual and best test is the carboliuchsin stain The antiformin method has only a little advantage if the urine is alkaline and mucous Tubercle bacilli and smegma bacilli cannot always be differentiated from each other because as Kolly's experiments have shown some of the smegma bacille like the tubercle bacille can not be discolored with alcohol The smegma bacilli however he single or in loose groups and Koch s bacilli are seen in some places at least, in very close bunches The gumea pig test is the best indicator for the presence of tubercle bacilli. When a tuber culous infection of the urmary tract has been as certained positively it remains to find out which side

is affected and how far the disease has operad. This can be done only by cystoscopy and catheter scatton of the ureters. Unne separators are unreliable By cystoscopy as decision may often be made as to which kidney is diseased from the condition of the orifices of the ureters and their sur roundings. There are however some observations (Aspasamer and Rovenig) which show a diseased orifice of the ureter on the sound and healthy side of the bladder. Which side is diseased to what the third of the diseased side is affected and whether the diseased side is affected and whether the observations of the standard of the urne obtained by catheterisation and a functional diseases of the kidney.

The prognoss is usually bad The author found that in Suterland more than half the number of cases not operated upon died five years after the begans of the disease. The therapy for chronic tuberculous of the kidneys about the test yn exphreculous commences and the state of the

The primary mortality after nephrectomy for

tuberculods is a per cent or less an I the fatal cases are mostly complicated with preumonis myocar ditis embolism or meningitis. The secondary mortal ty is about 15 per cent and in these cases death is usually caused by phthius. The total mortality of cases operated upon is about to to se per cent in contrast to the oo per cent mortality in cases not operated upon After operative treatment of chromic tuberculous of the kidneys 75 per cert of the patients live for riany years and more than ball are permanently cured. The local in former of preparectomy upon the bladder and the store depends upon the degree to which the d wase has advanced at the time of the operation Pus or bactle in the urine d suppras only after months or year. The vental troubles also druppear slowly and in some patients rever completely irrigation of the bialier as an after treatment should be omi ted as it gives rise to irritation of the resical walls. Inst listions of 3 per cent iodolorm oil or sul hmate solu son are often of value Alter the sub-region has been cured the proprectoursed patients are as res cart as those with both ki iners normal provided they are not exposed to dangers and o eletertion. In 15 early cases the author's therapy was eachy ely conservati e from the beginning in 14 of them I onever operation had to be perf rmed later on because the conservative treatment had been without results

The article contains many interesti & details in regard to the pathology of nical d agross and ther any and also a columnous bibliography

OURSE CREEK

Zollinger F Traum tie bephritie Bettrige zur Frie der tra m tischen Arphreis Savis P ndré au f Med 19 5. m. 8 3 By Amirabl I d gra Ch 1 n. 1 Creaced

The author I tinguishes between traum which results in rupture of the Lif ey general bod ly lajury and chronic trauma such as is aweed by e corner ath eucs. Traumatic albuminuna quent and may be caused by hamorrhage and cit

culatory disturbances which may lead to necros There may be purplent nephr its from infection of the kidney through the intestine or the bladder or albuminums from degenerative and regenerative processes in the region of the Ladney wound if there are orderna urzerus and retinal charges as well as albuminums the diagnous of traumatic nephriss is justified. He reports cases from the literature in which the disease could be attributed to trauma Umlateral cases of traumatic albuminu ris and cylindraria are also observed. There is a possibility that an occult kidney disease existed before the injury and that the trauma merely brought on an exacerbation In cases of unstateral traums the possibility of a secondary sympathetic involvement of the other kidney must be considered. The author discusses course prognosis, and treat ment with a thorough consideration of the literature A. HEIVERE.

bearing on these points

Bratton II Q : Hydronephronis with Report of Cases Obse St M J sout it, 4tr By burg Grace & Obst.

liration reports twel e cases in which an attempt was made to determine the existence of hadronephrosis in its early stage before the cordition gave rue to a pulpable tumor with a dilated reive and a thinned cortex

The author points out that in order to disense hydronephrosis early one must have recourse to more exact information than can be obtained from the general symptoms physical examination, and the routine examination of the unne. The use such general methods alone will often make it dificult to differentiate an early hydronephrosis from such cond tions as calculus of the kidney or ureter acute i fection of the kidney and such ex ra renal conditions as inflammation of the prostate and sermal releies the symptoms of these latter dueases being not infrequently in lie to those caused by a hydronephrosis

According to the author a diagnosis of early hydronen'hrosu must be based on convincing evidence of increased capacity of and obstruction to the read pel is Such evidence is obtainable by measurement of the capacity of the renal peirls and by an V ray examination when the pel is is

distended with sil er salt

The author proceeds as follows Both wreters are first catheterized usually with a to 7 catheter and while the costoscope is still in the bladder a warm libute solution of argy rol is injected into the kilines by gravity. After reassuring the tenal pelvis the cystoscope is removed leaving the catheter in place best a f netional test with phenolulphorephth lem is made over a period of 15 to 30 runutes and separate specimens of urine are also obtained for microscopic study Following this an I ray is taken to exclude renal or ureteral extendes after which the rel as is distended with \$2 per cent collargolum and another picture taken to determine the size and pos two i of the renal pel is, ureteral Links and the a gle at which it enters the reivs

Of the 12 rates studied 7 showed typical colic a showed pus blood or both microscopicalpairment of fu ctional capacity as shown by the phthalein test The capacity of the diseased kidney ranged from so to 100 ccm as compared to an average of about 11 cem on the healthy side

Forseman Reconstruction of Cyclic Kidners. mentan reconstruction of Cratte Audiented with a Contribution to the Knowledge of the Pathogenesis of Cratte Kidnerg (Rebostrations on Crattenguera, safekha Bettar sar Kesst-nu der Entsteheng von Crattengeren) Beter a falled dest auf Pathol o 3 bri 500. By Zentralbi, i d ges Chr. Grenneh

The question whether cystic kidneys, provided that the cysts are not interpreted as cystadenomatous form tions but as retention cysts are produced by interruption of the canalization as a consequence of congenital malformation or con striction or depend on inflammatory processes can be solved by the reconstruction method For this investigation only such cystic Lidneys are suitable as those in which inflammatory changes are absent On such a kidney the author could show that all cysts are retention cysts and that the inter ruption of the canalization occurs at various points along the collecting tubules The cystic transfor mation was not localized in a certain part of the canal It occurs where the resistance of the tissues is slight because of the loose character of the tissues but also in collecting tubules which are closely surrounded by connective tusue. Here the in crease of the intracanalicular pressure lends to the PRANCENHELM dilatation

Hohlweg H Further Data on the Treatm at of Pyelitis by Lavag of th Renai Pelvis (Nucuer Ertahrunge übe die Behandlung der Pyelitis mit Vierenberkenspullungen) M chen med Bich schr 931

42 By Zentralb! f d ges Chir u Grenzgeb

The author briefly discusses the various methods of treating pyelitis Lenhartz therapy that is the intake of large quantities of fluids to irrigate the nelvas of the kidney from above the prescribing of urinary antiseptics vaccination therapy the Meyer Betz method of raising the acidity and concentration of the urme It is emphasized that with all these methods only a limited number of cases are bacters ologically cured and that by the active treatment by means of direct irrigations of the pelvis of the Lidney a much higher percentage can be cured Of the 17 cases reported 15 became free from symptoms of pyclitis and were discharged clinically as well as bacteriologically cured The late results based on cases examined as late as two years after they had been discharged showed that the benefit derived was permanent. Nothing is accomplished how ever by irrigating those cases which begin as an injection of the renal pelvis with the colon and in which the inflammatory process has invol ed the kidney tissue so that the albumin content of the urme is higher than can be accounted for by the pus

As arrigating solution the author uses principally silver nitrate solutions increasing the strength from I to 2 parts per 1000 to 1/4 or 1 per cept The reac tion locally of the tissues and the sensitiveness of the patients to these solutions vary considerably Irrigations were done two to three times a week and after two to three weeks treatment in the boso tal the patients were discharged \aturally the best results follow early treatment which should be instituted as soon as the condition is recognized

Kidney Transplantation tales) Lyon à 913 z, 09 By Journal de Chirurge Villard and Perrin (Transplantations rénales)

This article is a general review of the technical results of experimental autoplastic homoplastic and heteroplastic transplantation of the Lidney which the authors add their own experiments only the original part of the work being reviewed

They do not believe in the profuse preliminary washing of the Lidney with Locke's solution as advocated by Carrel They think it does more harm than good and tends to immobilize the liquid blood in the Lidneys they merely put the forceps on the renal artery and vein. This interruption of the circulation can be kept up for an hour and a half without causing necrosis As the implantation of the ureter in the skin was followed by a latal ascend ing infection they found it necessary to graft the ureter into the bladder This makes it necessary to select the vessels on which to graft in the abdomen or pelvis and prevents them from transplanting onto the large vessels of the neck, which is easier tech nically Implantation on the renal vessels themselves which would be the most satisfactory is possible but very difficult on account of the shortness and depth of these vessels. The plenic vessels seem to be the vessels of choice

The authors have tried auto- home and hetero

transplantation with results as follows

In autotransplantation three experiments on dogs resulted in two failures from thrombosis of the vessels and gangrene of the graft Transplantation was on the renal vessels on the opposite side in one case and on the plenic vessels in the other. One successful case was that in which the implantation was made on the external jugular with the ureter opening on the skin. The transplanted Lidney secreted pale urme without albumin but containing 2 8 per cent of urea. This secretion was continued until the death of the animal 68 days later from another operation Histological examination of the kidney showed diffuse ascending pyelonephritis without any trace of necrosis

In nine experiments of homotransplantation on dogs, none showed really complete success Twice there was fatal harmorrhage from slipping of the vascular sutures one of these transplantations having been on the external iliac vessels and the other on the spieme vessels and twice there was almost immediate thrombosis In one of these cases the graft was made on the renal vessels and the other case was a graft en masse of the two kidneys in front of the cava. In another instance of graft n m see f both kidneys, the animals died quickly before the cause of d ath was determined. In four cases — one of implantation on the renal vessels and three on the great vessels of the neck - there was gangrene or absorption of the graft but in three of these cases the kidney had secreted urine for a few davs

In heterotransplantation three experiments tried with no success whatever were \ graft en masse f the Lidneys of a cat on a dog graft of the Lidney of a pig on the certical vessels of a dog and of the kidney of a dog on the cervical vessels of a toat In the latter case re-establ shment of circu lation in the transplanted organ and necroses did not

take place for so days the ureter had not passed a drop of unre

Villard and Perrin's experiments confirm the results of other workers who have attempted kidney grafting by vascular tran plantation. In spite of the continued failure of heterotran plantation they think it would be permissil! to try it in selected cases on min f r the operation is harmless. The Lide ; of an animal as closely relate ! to man as possible hould be selected that is, on of the higher forms of monkeys I nger ha done the in one case but without success LF O MANT

Braizes W R r Imperimental Studies of the Di gnosis of Kidney Function (Fuer men in Heistige zur Fr ge der funkthord) a Nermdagne-131 brit all d VII Aong R c Ch 413 21 10) By Lentur III d ges Chiz I Genageb

According to exten a c experiments by liranew the indico carmin and phenolaulphorenhthalein tests are alike in their results, and the phlorisin test

is not identical with them In order to examire these tests comparatively and to determine the localization of the excretion of Indigo-carmin and phlorizin from the kidney he or someoreassum and montent from the kidney he performed a series of experiments on dogs. In the first series 4 to 5 ccm of alcohol were injected into the kidney. When the lesion was in the cottical substance the indisocarmin output was most decreased When it was in the meduliary sub stance the sugar output was the most affected In the second series of experiments wedge-shaped pieces of kidney tussue weighing from 5 to 17 gms were removed. A decrease resulted in the amount of urne the molecular concentration the percentage of solid constituents as the sugar content and the intensity of the ind go-carmin coloring. In the third series the cortical substance was removed from the surface of the Lidneys. The more the cortical substance removed the greater the decrease in the urme \ decrease occurred also in the molec ular concentration the indigo-carmin coloring the urea content and the solium chloride content The phlorizin content in some cases was normal in others a little increased In the fourth senes which included four cases 3 to 4 gms of medullary sub-stance were removed to more could be removed on account of the danger of injuring the large blood vessels. This amount of urine the concentration sugar the urea content and the indigo carmin coloring decreased the latter less than in the preceding series. In the fifth series which included five rabbits and ten dogs indigo carmin was injected into the seins. Mier 12 to 30 minutes both the normal and the injected Lidney were exturpated It was shown that the coloring matter was excreted from the cortical substance and from the epithelium of even the injured tubules The excretion did not take place imultaneou ly from all the tubules, but there were alternating periods of activity and rest in different groups

Branzew comes to the following conclusions The

house part of the urine is excreted from the mal pightan bodies of the cortical substance It cannot be absorbed by the medullary substance The solid constituents including the salts are excreted from the epithehum of the urmary tubules The sugar philorizm test is excreted in the medullary substance probably from the epithelium of Henle's The urea is excreted from the epithelium of the unnary tubules. In interstitial nephrits the excretion of sugar and indigo-carmin is hindered chiefly by the formation of connective tissue which hands the enthelium f the tubules to the endothehum of the capillaries. In parenchymatous nephritis the excretion of these substances is normal because of the slighter changes in the enithelium and the lower excretion of fluid The indigo carmin and phenolphthalem reactions are more valuable than the phiorizin test because they local ze the anatomical lesions more accurately. In the indigo-carmin test the intensity of the coloring is the most important point. If one kulney is normal the degree to which the other is affected may be deter mined by cathetenning the ureters and comparing the coloring of the two sides In the phiorizin test a comparison of the sugar percentage of the two kidneys is valuable Casper a modification is not Both the phlorizin and indigo-carmin rebable tests should be made as they supplement each other I's clotomy is to be preferred to pephrotomy because every incision through the kidney results in a considerable destruction of kidney parenchyma

Heer

Young F L.: Clinical Functional Tests Methods Bo ton M & S J p23 lxix, 466 By Surg (1) nec & Obst

The author discusses the place of the phenol-sulphonephthalela test in nephritis and concludes that the phenolsulphonephthales test comes nearest to luinling all the requ rements of a clinical ly valuable functional test in that it is easy to use is harmles to the patie t and gives accurate and consistent knowledge of the actual working ability of the kidney. It is a fact that the practitioner wants more than the knowledge of whether the glomeruli or tubuli of the kidney are affected. In surgery it already has a recognized p medicine it has a certain value which will increase with its increased use FR AR HINKS

Geraghty J T and Rowntree L. G The Value and I imitations of Functional Renal Tests 9 3 lx 930 Syb rg Cynec & Obst J Am 1/ 4

The authors discuss functional renal tests with reference to their judicious selection for obtaining the needed information in any i dividual case by the use of a ungle test or a proper combinatio of a small number They divide the tests into two groups those which determine functional capac ity by showing the excretory b I ty through a deter mination of arious ubst nce in the uri e such as

the many dyes and other chemicals as potassium sodide lactose sodium chloride urea sugar and enzyme diastase and those which indicate renal function through the retention of certain sub stances in the blood as ions determined through electrical conductivity molecules determined through cryoscopy urea incoagulable nitrogen and cholesterin

Of the dye group only one need be employed and this should be phenolsulphonephthalein on account of its proved superiority. A selection of the other tests should be made with reference to the three great types of renal disease (1) Undateral and bilateral diseases necessitating ureteral catheterization (2) bilateral surgical diseases secondary to obstruction in the lower urinary tract and (3)

medical diseases of the kidney

Tests with reference to the first group should show three things (a) The total or combined renal func tion without ureteral cathetenzation (b) the rela tive funct on and (c) the absolute functional value of each kidney The authors consider the phenol sulphonephthalem test as uncomparable so far as a total function is concerned and in cases in which it is very low advise the use of one or another

of the retention tests

In ureteral catheterization two difficulties are met viz inhibition of function and leakage around the catheter A previous total phthalein deter mination will detect any discrepancy due to in h bition However inhibition is not always equal on each side and in this case diastase and urea percentage together with a difference in urinary pigment with a consideration of the total phthalein previously obtained will be of value. In the case of leakage around the catheter the cathetenzation can either be repeated using a Garceau catheter on one aide and collecting transvesically on the other or when this is not practical the desired knowledge may be largely obtained from the original specimens through urea percentage diastase and the time of appearance of the phthalein on the two sides. Here the diastase is more reliable since it is not affected through dilation

In the second group the total function is the only information needed and the phthalein test if re peated at intervals in the course of the preliminary treatment will indicate the most favorable time for surgical intervention However in this group of cases with a low phthalein tests of rete tion are of great mportance and the authors consider blood urea as determined by Marshall's method as most valuable i r indicating cumulative phenomena

In medical cases the tests fall into two groups those attempting to differentiate between tubular and glomerular lessons and those to determine total At present so little is po tively known or proved concerns g the specific function of any ndividual on t of the Lidney that any attempt to divide n phrit a premature but tests for total renal function in this group are of undoubted value The authors divide medical cases for functional work into (r) Cases clinically suspected of nephritis but exhibiting practically normal renal function (2) mild cases of nephritis without cardiac decompensation (3) advanced nephritis without cardiac decompensation (4) Cardiorenal cases and (5) chronic passive congestion in cardiac cases unassociated with nephritis

With reference to urgernia the authors claim that functional studies will indicate that it is impending even when its proximity is not suspected from clinical studies They claim that a continued failure on the part of the kidney to excrete phenolsulphonephthalem lactose etc associated with the con tinuous marked and increasing accumulation of urea or total incoagulable nitrogen or low serum freezing point indicates the early appearance of uramia regardless of the underlying pathological condition

In conclusion they state that functional studies always find their greatest value when associated with careful chrucal studies and when properly employed yield most valuable information from the point of view of diagnosis and proguesis and in the selection of the lines of treatment. FRANK HIVMAY

Fitz, R: Tests for Renal Function Based upon the Selective Excretory Activities of the kid ney Boston M & S J 19 3, class 384 By Surg Gynec & Obst

Titz describes the technique of the lactose water salt and todide tests as applied to determine the selective excretory renal function and discusses the value of the information thus obtained in the diagnosis prognosis and treatment of nephri Abnormal tubular function is shown by the mability of the kidney to increase the concentration of the salt in the urine, when an excess of salt is added to the diet and by a delay in the excretion

time of potassium iodide

Abnormal glomerular function is shown by the inability of the kidney to excrete factors in the usual time and quantity Furthermore abnormal glomerular function is of two types The vessels are either hypersensitive as shown by a constant polyuna increasing in response to the vascular stimulus of salt or hyposensitive as shown by a constant oligura The tests are of considerable quantitative value In general, the severity of functional derangement shown by them corresponds with the chinical and anatomical severity of the disease Cases studied by these methods can be grouped functionally into glomerular nephritides tubular nephritides and a mixed form which shows functional derangement of both systems.

FRANK HONKAN

Christian, H A General Summary of the natian, 1: A General community of the Significance of Methods of Testing Renal Function Bo to M & S J 19 3 chur 468
By Surg Gynec & Obst

The functional tests are summarized by the author with reference to their value in diagnosis

prognosis and treatment of renal conditions. They are of great value in diagnosis in surgical conditions of the kidney but a functional lesion and an anatom ical lesion must be distinguished as a decrease in functional activity is not always accompanied by a demonstrable anatomical lesson The repeate application of the tests will help to determine this point as for example between a true nephritis and a renal disturbance consequent upon cardiac decompensation or between functional decangement following unnary retention and an actual diffuse renal lesson secondary to urinary stays along with chronic infection In cases of this kind the phenol sulphonephthelers test has proved the most beloful but only through its repeated application

In cases of coma of difficult diagnosis the deter mination of nitrogen retention in the blood is con sidered by Christian of greater value than that of

The other ruethods of testing renal function which depend upon the selective activity of elemerulus tubule or blood vessel do not at present justify a very accurate pathological diagnosis of the renal condition although their appl cation has materially advanced our ability in this direction. In prognosis the author states that the tests are particularly applicable again in surgical conditions and that the phthalein test is the most applicable. He again emphasizes the repeated use of the test. In case of nephritis more remote prognosis is better aided by other tests as water nitrogen salt and lactore In all these cases it is not the single test made

once that is I value but the repetition of several In treatment Christian thinks that we are tests not in a poutson to evaluate functional tests as relatively little work has been done on their relation to therapeutic measures. In conclusion he states that the tests are of unquestioned value in renal disease "but they should supplement not supplant other ways of studying the nephritic

FRANK HOURS.

Arceling Radiographic Diagnosis of Calcul eijn; Radiographie i agreement cateur i the Peivis Ureter (Calcul de l'uritère pelvaen droit Sur le dagnostic radiographique des calculs de l'uri-tère pelvaen) Leves méd 0 3 cm 760. Ily Journal de Ch rurgie

Arcelin reports the history of a case where radiography showed a calculus on the right kidney a calculus in the upper part of the ureter and a calculus at the level of the pelvic ureter On opera-tion in 1910 no calculi were discovered In 1912 the patient returned and the radiograph this time showed a shadow only in the right pelvic ureter not f r from the uretero-vesical ornice. It was removed and the patient made an uneventful recovery In connection with this case the author discusses the whole question of radiographic di agnosis of calculi of the pelvic ureter

In every case the ureter should be catheterized in const ction with radiographic examination some cases there is a shadow at the level of the pelvic ureter A sound is introduced and stopped by some obstacle and an X ray shows the end of the sound touching the calculu which is displaced upward. In such cases there is no doubt as to the diagnosis The sound may pass freely into the preter and the shadow of the sound and that of the supposed calculus do not touch In such cases it is possible that there is a sufficient dilatation of the preter to allow the sound to mass without touching Collargo may be miected to determine whether the ureter in dilated

Between these two extreme cases there are all sorts of intermediate cond tions to be interpreted. and sometimes, even with the most careful examina-

Sometimes calcula are impacted in the pelvic ureter The plate shows the shadow of the sound in c ntact with that of the foreign body It m probable that in such a case we have a true calculus but there is one source of error in that the sound may be arrested by a stricture of the ureter while the foreign body which causes the shadow is in another plane but in the same bundle of \ ray

tion compl te diagnosis is not possible

ometimes the sound pa ses freely and its shadow is superimposed on that of the foreign body. In such cases there may be a d lated ureter with the sound parsing over or under it instead of to one side An injection of collargol will overcome the trouble But if there is a superimposed shadow without dilatation and without arrest of the sound we have to consider a diverticulum containing the calculus or a phiebolith of the perioreteral veins or some foreign body situated outside the unnary passages Caution is necessary in such cases all the clinical and radiological symptoms must be taken into conideration and sometimes it is even necessary to

perform an exploratory operation

Sometimes as in the case mentioned above the
ornice of the ureter cannot be located A radiogram is taken showing the ureteral sound touching th bladder wall at a point thought to be the ureteral onfice The hadow of the calculus, however shows the real location of the ureter and the direc tion of the sound is changed so as to reach it This shows the absolute necessity f r a close association between urmary surgery and Y ray work. In hospitals in the past the Y ray room has generally been at some distance from the operating and ex amining rooms of the genito unnary service the future they should be located as close as poss ble 1 Dunout to each other

Lorin The Ureter after N phrectomy [L'arêtère prè la nephrectome] Arch ard di é hechr 9 3 45 By Journal de Chaurpe

Experimentally when the kidney is removed in a normal animal the lumen of the ureters remains open but at the end of a year the walls of the

ureters are slightly atrophied It is difficult to know clinically what becomes of the ureter after a kidney operation Lorin studied this question in a number of cases of nephrectomy both of catheterization of the ureters on the operated side and by examination of the contractibility of the ureter He also removed the ureter from a woman who had had a nephrectomy performed two and a half years previously for tuberculosis. This ureter was transformed into a fibrous cord He concluded that the decreased ureter had a

tendency to become obliterated after nephrectomy generally after about three years Its mucous membrane disappears as well as the lumen. The contractions persist as long as the lumen is not

obliterated

The ureter of the removed Lidney may be the origin of vesical harmorrhage (which generally occurs only during the first few days) of pyuna or of baciliums. A return flow of urine from the ureter into the nephrectomy wound occurs only when the ureter is very badly diseased and has a large lumen and a rigid wall \ pathological ureter may be the cause of a post operative fistula in the kidney wound though such a con lition is not always due to a lesson of the ureter. He thinks the simplest treatment of the ureter is best. It should be divided with the thermo-cautery at the lower part of the wound This will give a good recovery without a fistula if the nephrectomy wound is completely closed and drained as I tile as possible Removal of large sections of the ureters is useles and the various fixation of the ureteral stump troublesome MALRICE CHEVAS E

#### BLADDER, URETHRA AND PENIS

Kidd F Purpura of the Bladder

Phila 19 3 lvn 388 By 5 rg Gynec & Obst Ridd reports a case of secondary purpura con fined to the bladder but arising in a bacterial in-fection of the tonsil. The case was that of a 12 year-old girl with a history of a sudden desire to urinate and a sharp stabbing in the left iliac region spreading to the vulva Examination showed deep tenderness over the bladder region urine full of blood clots Cystoscopy showed healthy ureters and the bladder wall pale and healthy but scattered over the fundus and trigone were seen patches of submucous harmorrhages varying in size from a pin s head to a suxpence some linear some stellate neither ulceration nor miliary tubercles present

Defferent diagnosis Purpura of the bladder wall or primary blood infection or tuberculosis at its very onset. No tubercle bacilli were found the

von Pirquet was negative

The patient was kept in a recumbent position and calcium lactate in doses of to grains was admin istered three times a day for a week, when the

patient was discharged as cured

The interesting factor was cystoscopy for the condition resembled exactly a purpunc eruption found on the skin which cleared up like a simple purpura. This condition was unaccompanied by any other sign of hamorrhage either in the skin or any mucous membrane. Louis Gross

Lower W. E. The Treatment of Recurrent Malignant Tumors of the Urinary Bladder with the High Frequency or Oudin Gurrent with a Report of a Case Clescland If J 1015 By Surg Gynec & Obst

The author reports an interesting case of recur rence of malignant tumor of the urmary bladder which when first seen presents all of the char acteristics of a typical papilloma. It was removed by the usual suprepubic operation which was fol lowed by an uninterrupted recovery The microscopical examination showed that the tissues con tained definite carcinoma cells. Two years later there was a recurrent growth at the seat of the old tumor This time the growth was treated by means of the high frequency current five applications being made. The tumor completely disappeared and at the time of writing two years later the bladder remains perfectly normal

Héresco P: Total Cystectomy for Multiple or Infiltrated Neoplusms of the Bladder (De la cystectome totale dans les néoplasmes multiples ou mûltrês de la vesse) J d roi 19 3 v 69. By Journal de Chuurge

The author has treated four cases successfully by operation. One lived ten another six months and the other two are well one two and one half years the other one and one half years after the operation He believes this is an armiment in favor of total cystectomy in such cases and for the implantation of the ureters in the skin of the hypogastric region

He believes skin implantation is very much supe rior to intestinal or vaginal implantation because it permits of catheterization at will and of disinfec tion of the pelvis with antiseptic irrigations. Im plantation in the hypogastric region is preferable to that in the lumbar remon because the notient can cathetenze and umgate himself and one collector can be used for the prine from both kidneys

Brief case reports are given as follows
Case: A man of fifty with frequent and
abundant hematuria anguna and lumber pain The cyatoscope The latter was worse on the right showed a tumor that occupied the whole fundus and had a large base on the left wall of the bladder On the right wall were two small tumors near the apex There was diffuse cancerous infiltration of the whole bladder A median hypogastric incision was made lateral dissection of the bladder and dissection and section of the ureters without opening the personeum The bladder and half of the pros-tate were removed. The urriers were fixed into the upper part of the wound and the hypogratic cavity was tamponed. While the wound was healing the pel es of the Lidneys were frequently prigated with silver mitrate Convalescence was complicated by a permephretic abscess which was evacuated The recovery was complete with no trace of recurrence after two and one half years.

Case 2 A man of fifty nine with a carcinoma occupying the trigonum and closing the left ureteral orifice. The same technique was used in the case as in Case 1 Death occurred aix months later with out recurrence but with signs of peptinis

Case 3 A woman fifty with a very extensive degenerating papilloma covering the ureteral orifices Same technique Death at the end of ten months from py elonephritis

Case 4 A man of forty five At first a palliative operation was performed by pogastric incision partial excision of the tumor cautenzation and dramage Four months later total cystectomy The ureters which were dilated to the size of the index finger were sutured to the skin. The cavity result ing from the extripation of the bladder was drained through the permeum. The patient recovered and

had had no recurrence a year and a half later The author calls attention to the advantage of dramage through the permeum and of dissecting the ureters before suturing them to the skin even though it involves some danger of gangrene

I TAYTON

TAMES F CHURCHULL

Kleiner I S: An Elimination Through the Mucosa of the Urinary Bladder J Est Med.

By Surg Gynec & Obst. IOTE EVILL SI Kleiner found very slight traces of destrose in the urmary bladder after the intravenous injection of dextrose in nephrectomized rabbits. He con cludes that the bladder is practically impermeable for diffusible substances that are present in the

Lemoine G: New Operation for Making a Blad der after Total Cystectomy for Cancer (Crestion d'une essie nouvelle par un procédé personnel après cystectomie totale pour cancer) J d'arel 1913

blood in prest excess

By Journal de Chirorere The various methods of procedure for disposing of the urme after removal of the bladder are discussed and Lemome describes an operation of his own based on Hests Boyer and Hovelacque's method of utilizing the rectum as a bladder method differs from theur in that the ureter itself is used to discharge the urine as the external aphinc ter insures continence The ureter had been transplanted to as to open into the rectum at a previous

operation Abdominal operation The rectum was in cised a little above the promontory, taking care to avoid the superior hamorrhoids! artery The rectal opening was carefully sutured in two layers and a suture passed through the argmoid opening and left free The argmoid flexure having been freed by dissection of the mesocolon and incisions in the peritoneum at some distance from the in testine was lowered to the perincal floor into a space obtained by dissection of the posterior wall of the rectum and the abdominal wall sutured

2 Perineal aperation The acrococcygen in cision was carried to just above the sphincter of the anus, and the remo al of the coccyx, dissection of the rectum and section of the levator ani and aponeurosis followed The sugmoid flexure was lowered by traction on the ends of the suture

A transverse incision of the perineum to the postemor ornice of the ureter was made and by introducing the fingers through the permeal and sacral wounds the rectum was dissected circularly for a little way above the sphincter of the anus. The perstonesi cui de-sac was cleaned out the postenor edge of the upper part was caught in a pair of for ceps and the antenor edge of the lower part in another This made it easy to invaginate the sigmoid flexure into the lower portion of the rectum After having pulled on the suture and thus occluded it the orifice was fastened to the skin at the

margin of the anns by means of silk sutures A sound introduced through the ureter was placed in the upper portion of the rectum which formed the new bladder A permeal drain was introduced the perineal wound sutured and the sacral wound tamponed. The new bladder was thus drained through the preter and the perincum

entirely independently of the intestine The lowering of the sigmoid flexure however had been insufficient, so that it retracted into the sacral wound, the urine which should have been discharged through the wreter and the permeum was thus discharged into the sarral wound and at the end of a few days the dressings were soiled with time mired with facel matter

The suturing of the intestinal incision in the lower part of the rectum near the aphincter and the lower ing of the intestine to the anus were unavailing and the patient died from infection the eighteenth day after the operation 7 TANERS

Vander Veer J N Some Aspects in Relation to Chronic Conorrhos from the Stand point of Surg ry and Eugenics. N Y St J By Surg Gynec & Obst.

From a larg experience the author has come to believe that physicians generally are not impressed with the grave effects of genorrheral lesions and in consequence fail to make an absolutely accurate examination and diagnosis and do not effect cure Carefully prepared smears of the urethral secretion urmary and blood cultures microscopical examination of the various constituents of the unne when voided in separate parts endoscopical and cystoscopical examinations and inoculations into the guinea pig should all be made use of as conditions may suggest Sometimes organisms present in the genito urinary tract may be present likewise in the blood, nose tonsils and various other localized

points and become sources of re-infection Publicity is absolutely essential and the day must come when the suppression of the gonococcus shall rank with that of the tuberculous baculus and the mosquito The medical profession should unite and work with the church to put on the statutes a law compelling registration of this disease and prohibiting the sale of drugs for it except on a physician's prescription Moreover physicians must

compel themselves to be most painstaking and accurate in the diagnosis and treatment

Iowa and Mame alone require health certificates before issuing marriage licenses Iowa Vermont and Oklahoma list gonorrhoes and syphilis as con tagious diseases. The necessity for immediate legislation to bring about an amehoration of the havoc wrought by these diseases is great IIA RY D ORR

#### GENTTAL ORGANS

Wolbarst 4 L. A Case of Spindle Celled Sar coma of the Testis with Unusual Features Med T me Q 3 xh 275 By Surg Gynec & Ob t

The author reports a new case of tumor of the testicle and refers to one which he has already reported He gives a complete history of the new case which he reports and credits Hoffman with having made a diagnosis of a diffuse spindle-celled sarcoma Wolbarst describes the case as follows

When the writer through the courtesy of Lubman the attending physician first saw the patient on May 10 1913 three weeks after the growth was noticed by the patient the following data were noted The growth is soft but not fluctuating its longest diameter being five inches and its greatest transverse circumference eight and one half inches It is absolutely painless and without tenderness on pressu e and resembles a hydrocele in its pear shape but i opaque when examined by the light test The inguinal glands on either side and the spermatic cord are not involved

Owing to the extreme rapidity of the formation of this large mass it was deemed prudent to with hold the positive diagnosis of malignant growth un til the tumor proper could be examined on the operating table

We are pleased to know that Wolbarst has made a diagnosis of spindle celled sarcoma in a given case because we regard it as extremely are-so rare indeed that we consider it an anomaly From the statistics which he has collected he seems to be able to show that the largest number of tumors of the tes ticle are sarcomata as reported by hospital statistics Ewing a article to which he refers would lead one to believe that this position is incorrect and that the diagnous I tumors of the test cle in a large percentage f ages in the past have been incorrect The striking feature about the case described by the author that the e was no history of trauma or injury If say that in his case there was no pain but an e t emely rapidly growing tumor

In conclusion the report is summarized as f llows.

The water conclusion desires to point out the follow g int re ting and unu ual features I this case (1) It extremely rapid growth (2) is ab solut pa lessnes (3) the absence of trauma or other vivible etiologic factor (4) the um ersal de generation of the testicular substance (c) the comparativ ly re form of the tumor spindle celled

type

Picker R: The Anatomical Configuration of the Human Vesicula Seminalis in Relation to the Clinical Features of Spermocystitis. Urol &

Cuton Rev 1913 IN 463 By Surg Gynec & Obst

Picker has examined about 150 seminal vesicles by filling them through the was deferens with Beck s bismuth paste to the maximum capacity ( surgical fulness ') after which he endeavored to disentangle the tube system Thus he secured 72 specimens 56 normal and 16 pathological the classification of which is given in the following table

A Symple straight tubes Thick twisted tubes with or without

diverticula 15%

Thin twisted tubes with or without diverticula 8 15%

D Main tube straight or twisted with large grape like arranged divertic ula

19 33% E Short main tube with large irregular ramified branches

F \arnous

Embryological abnormalities

Conduplication of ves seminalis (specimen

Rudimentary seminal ves (specimen 50) Ductus Mullers persistens (specimen B 17) Vesicula seminalis covering ampulla (specimen

Ductus ejaculatoris in the posterior wall of prostate (specimen 44)

These all belong to otherwise anatomically nor mal specimens

II Pathological conditions

Inflammatory cicatricial adhesions not to be disentangled cicatricial occlusions of both vasa etc (specimen 15)

Carcinoma vesicula seminalis (specimen I)

General total 72 specimens The forms of the ampulla of the vas deferens

secured by studying the V ray photographs are shown to be as follows

Simple narrow tube without di erticula
 Straight

(b) Twisted

2 The same arrangement of the vas deferens

(a) With mall bud like diverticula

(6) With great diverticula Feathery arrangement

2 Papillomatous arrangement (cauli flower like downy etc.)

3 Impulie with corpus diverticulare

When infected the straight single tubes of group A might not give rise to many complications

The infection of form B characterized by thick long screwlike twisted tubes with or without diverticula might in case f acute inflammation be accompanied by abundant pur formation and high fever. In these cases Pfiche has noted a very large inflammatory tumor extending to the smpalls of the rectum as well as strong subjective monovern sences originating in the bladder ( subacute cristina following inflammation of the secinal visible especially if residual urase can be excluded; and the rectum. In the given case he had to do with a discrecial control of the control of the control of the disappearance of the alarming and exite symptoms the final cure of the disease takes piace within an unexpectedly short time (1 to 4 weeks) by means of the complete evacuation of pus either in a natural way or through the massage treatment.

The raung of the pain is clearly to be expluined by the auntomical configuration of the long and large twated tubes, when these are filled to a maximum by the products of the miltimation. The best proof of the correctness of this conception is given by the smoothate disappearance of the incompany of the product of the p

again to the maximum

Administrang the execution treatment as often as necessary (even three or low times daily) he states he has been able to d f intely releve the patients of their distress usually within one weth patient step frequently emptying at one situapus quantities from 150 &cm and in one of his most tremarkable cases, as much as 15 ctm of thick yellow pas

These cases connected with such an abundant supportation might also be sumbar to those in which by shutting off the draining of pus or by insufficient evacuation of the retention the mortual secretion makes for itself a path in the nelighborhood of the vessels and breaks down into the perviscular and pennectal cellular tissue into the pennecular and pennectal cellular tissue into the pennecular and pennectal cellular tissue into the pentoneum (Doug lass fold) or even into the rectum

Form C is characterized by thin twisted tubes, with or without small diverticula

In group D the main tube is straight or twisted with larger grape-like arranged diverticula. The many diverticles and windings in the case of

The many diverticles and windings in the case of an infection predispose to retention

The case mentioned in class 3 might belong to

groups C and D
A short man duct with large ramified irregular secondary branches are distinguishing features of group E. Bicker would in the given case proceed as though dealing with a seminal vesicle belonging to this group when after the quicting down of the acute initial phenomena and the lysis of lever there is to be remarked an abundant charaction of the large and swanded and treated an extraction of the large and swander to group B but resulte is only to be obtained the state of the large and swander massage treatment extending over several months. During this treatment there are empticed, together with normal size formed seminal secretions, numerous long and thick pus-threads and plage which in shape quite resemble the normal

sago-like secretions which are formed of leucocytes containing those bacteria which produce on interrupting the treatment the recurrence of urether discharge and cystitis so often observed in the hronic unogenital aliments. A. C. Stores

loung, II II The Rôle of the Prostate and Seminal Vedicles in General Tomernia J Am M Aus 1913 in, 8 1 By Surg Gynce & Obst

Young says it is now becoming more generally recognized that the etulogy of many obscure jour cardiac neurologic and any cardiac neurologic and part of the cardiac neurologic and part of the p

The etiology of these cases is by no means always gonorrhoeal Many cases arise from bacterial in fection which comes down through the unnary tract having been elimin ted through the kidners during acute 1 fections in other parts of the body Infections also reach the prostate from the rectum not infrequently as a result of procests ulcer hamor rholds, etc but more frequently they result from the long-continued practice of masturbation which in many cases produces an extensive chronic in flammatory process involving both the prostate and seminal vesicles and the tissues around them so that one frequently finds an extensive enlargement and propounced chronic inflammatory condition associated with local and remote symptoms sometimes of severe character. The essential process is an endoactnous and perfactnous inflammation in the prostate and chronic inflamm tory infiltration within and about the wasa deferentia and seminal vesicles

Owing to the fact that all these tructures drain hadly being depe dent on manute tortious dand at bubles foc of chronic alluminatory inflitation remain unrelieved for years often becoming surrounded by fibrous changes and remaining centers for the absorption of tourns and infections.

Sasnki J Experimental Atrophy f the Prostate from X Ray Treatment of th Testicles (Use die experimentelle Prostateatrophie durch Rönten bestinblung de Hoden) Destitle Zinde J Chi

9 3 com 200 By Zentralbi f d ges Chur 1 Grenageb

Sasaki wished to determine whether atrophy of the prostate could be caused indirectly by X ray treatment and what relation the changes in the testicle bear to those in the prostate For his expen ments he used five rabbits and four dogs, which were treated twelve to fifteen times for periods of from thirty-six days to five months. The testicles and prostates of these animals as well as those of eleven control animals of various ages and varieties were examined histologically In three rabbits atrophy of the prostate was clearly evident both microscopically and macroscopically In two dogs and two rabbits the atrophy was extreme in the other am mals it was not so pronounced No case however escaped some atrophic change Brown rabbits were more susceptible than black. In the dogs the changes were less than in the rabbits Histologi cally there was either total atrophy or atrophy with degeneration especially round celled infiltration The epithelium was decreased and the interstitial connective tissue increased The muscular parts were atrophied. In rabbits the atrophy was complete in dogs the central part around the ureter was more changed than the peripheral part Sasaki behaves that he has demonstrated that rontgen rays applied to the testicles not only inhibit the growth of the prostate but cause retrograde changes in the fully developed organ He discusses the histological changes 1 e the disappearance of the seminal cells and the enormous increase of the interstitual cells He believes that X ray treatment of the testicles is an effective therapeutic measure in hyper trophy of the prostate Already a few chinical reports substantiate it RUBRITIUS

McCarthy J F Frelim nary Report on Cysto scopic Operative Treatment of En Iy Intra vesical Prostatic Intrusions and other Obstructi e Conditions n the Region of the Vesical Sphincter Am J S g 93 Kul 37 By Surg 43 Kul 367

The author reports two cases in detail in which manarkable results were obtained by the use of the Oudin spark. Both patients were suffering from request micrution and in both there was an enlargement of the prostate glands. Vigorous applications of the spark were made a week apart for two or three treatments and in both cases marked improvement resulted within two weeks and the properties of the properties of four or five weeks after beginning the treatment As the interval since the disappearance of the symptoms has been too short it cannot be said defaulted that the cure is permanent.

The author emphasizes the fact that cystoscopical examinations should be made in all patients over fifty who present symptoms referable to the genuturnary tract. He does not lay much stress on the rectal examination in these cases as the prostatic chlarment may not show there.

He emphasizes the necessity of estimating from a number of sitings, the amount of urme remaining after the patient empties his bladder as thoroughly as possible. He deems it an imperative necessity to

make a cystoscopical and posterior endoscopical examination of patients showing any appreciable amount of residual urine as in all likelihood it is at this time particularly, that these patients will prove amenable to suitable cystoscopical operative treatment

EDWARD L CORNELL

#### MISCELLANEOUS

Rubaschow S: Rontgenology in Urologic Sur gery (D: Rontgenologie im Dienste der urologischen Chirurgie) Zitekr f urol Ch. 1913 1 465 By Zentralbi f d ges Chir u: Grenzgeb

The presence or absence of pernsephritic adhessons are he determined only by means of rontgenoscopy (Durchleuchtung). Collargol argyrol or oxygen meeted into the bladder and renal pelvis facilitates the rontgenological examination aids in the dagmoss and with sufficient care is not dangerous to use In the examination for floating kidney or by dronephrous pyelography is undispensable. In the diagnosis of renal tuberculosis the examination has inhierito seldom been employed. Here again prelography is of metal tuberculosis the examination prelography is of metal tuberculosis the examination discussion of the present the control of the present of the collection of the finable renal parenchyma.

All the sources of error thirty two in number in the diagnoss of linding stone are exhaustively con sidered. In 3 to 6 per cent (2 per cent — Immel mann) stones are found at operation which could not be demonstrated rontgenologically. The most important sources of error are the chronic indurative process in the kidney tuberculosis calcified lymph glands and intestinal stones. In the rontgenology of ureteral stones forty six sources of error are men tioned and thoroughly discussed in part. Titly one rontgen sketches are included in this practical compilation.

Fra CEMENT

Pousson and Desnos: French Encyclopedia of Urology (Encyclopédie francise d'rologie) Paris O Doin 9 4 By Journal de Chirurgie

When this work of which the first two volumes have just appeared is finished it will without doubt be the most important and extensive contribution that has ever been made to the science of urology. The term encyclopedia is justified, for it is a thorough presentation of all that is known at the present time in regard to the unnary organs and their diseases.

There are an volumes of a thousand pages each with many splendial dilustrations. It is edited by sury five collaborators well known for their previous writings or their special work in unology. If it is finished in two years as planned, and the succeeding volumes have the same scentific value and the dispropriate of the proposed of

Bo

accompanied by abundant pus formation and high fever In these ca es Picker has noted a very large inflammatory tumor extending to the ampulla of the rectum as well as strong ubjective inconvenleners originating in the bladder ( subacute cyst tis following inflammation of the seminal vericle especially if see lurd urme can be excluded) and the rec tury In the given case he had to do with a disease of a vencula seminalis of the type in which after d sappearance of the alarming an I scute symptoms the fi al cure of the disease takes place within an unexpectedly short time (3 to 4 weeks) by means of the complete evacuation of pus either in a natural

way or through the ria age is atment The rung of the pain is clearly to be explained by the anat mical configuration of the h og and large two ted tubes when these are filled to a m almum by the products of the inf tramation The best previl of the correctness of this corception is given by the immediate di appearance of the incon theree attended by a pressing desire to urnate through the evacuation of the pus it e prince opear

ing immediately after il tube ) tem ha been n le ! Admiri teneng this exacust in treatment as often agrun to the mat m m as necessity ( in three r four times halp) he states have been able to diffin by tribese the p theres of their L ires a ually within o e week the I tiert very frequently emptying at one sitting pus qt. nitties from 5 to 8 cem and mene of his most remarkable cases as much as 15 ccm of thuk yellow

These cases connected to h such an abundant suppuration in ght also be a miler to those in which b) shutting oil the draining of put or by in aff cent evaruation of the retertion, the morbid secretion makes i r usell a path in the neighborhood of the vesicle and Lie ks lown into the perivesicular and perirectal cellular il sur into the peritoneum (Doug

las fold) or even into the rectum form C is characterized by thin twinted tubes with or without small I verticula

In group D the main tube is straight or twisted with larger grape like arranged diverticula The many if erticles and windings in the case of

an infection I red; pose to retention The case mentioned in clas 3 might belong to

A short main duct with large ramified irregular groups C and D secondary branches are distinguishing features of Picker would in the given case proceed as though deal ng with a seminal caude belonging to the kinds when after the direct of down I the to this group when after the quiet ag down I the acute initial phenomena and the lyst of fever there is to be remarked an abundant draining fl of pus similar to group B but the final evacuation of the large and swollen sem nal carcie is only to be brained affection and the contraction of the state o several months During this treatment there are servers months author that the servers there are secretions numerous long a d thick pus threads and plug which in shape quit resemble the ormal

sago like secretions which are formed of leucocytes containing those bacteria which produce on inter rupting the treatment the recurrence of unthral discharge and cysilius so often observed in the bronic urogenital adments

Young, H H: The Role of the Prostate and Seminal Vesicles in General Toramia / Am E By Sure Court & Obst. A: 1913 1 4,822

loung says it is now becoming more generally recognized the the etiology of many obscure joint. cardiac neurologic and other diseases is to be found in chroric infection 1 remote organ and in recent years the ton I nasophary na and abmertary tract ha e come to be regarded as the frequent site of such infections The stent to which the ges tourmary are t is to blame ha not been appreciated Chronic prostatitus and serural vesseul! trem ly con mon disea es and may exist for years without producing symptoms or attract og the attention of the princers They may show then sel coords a adapter sent when the patient marries or becomes the subject of chror c theur aturn or other forms of remote inf tion and toxxinis

The etudoge of these cases is by no means always gonorthreal Many on es anse from bucterial L. lection which omes do a through the unitary trut ha i g been el rimat I through the kidner in other parts of the bod Infections also teach the prostate from the rest w not infrequently as a result of processes where harvor shorts etc but more frequ ntis they result from the long-continue i practice ( musturbation which, in many cases produces an extensive chrop c ra flammatory process in I ing both the prestate and serund esicles and the t sues around them so that one frequently finds an stersale enlargement and pronounced chronic informat ty condition associated with local and remote symptoms sometimes of severe character. The essential process is an e discinous and periocinous inflammation in th prostate and bronn inflammator, infiltration within and about the vava deferences and semina Owing t the fact that all these tructures drau

badly being dependent on minute tortuous dusand tubules for of chron inflammatory infiltr tion remain unrelieved for years often become urrounded by abrous changes and remains centers for the absorption of t zins and infection

aki J Esperimental Atroph) of the Protection of the Testicles (I from Asy Treatm at of the Testicles (I from Asy Treatmentelle Protection) durch Road experimentally position of Durch Links J C bestrally as der Hoden). Saski J

By Zentralbi I d ges. Char to Green

Sysaks wished to determine whether atroph the prostate could be caused indirectly by

treatment and what relation the changes in the testicle bear to those in the prostate For his experi ments he used five rabbits and four dogs which were treated twelve to fifteen times for periods of from thirty-six days to five months. The testicles and prostates of these animals as well as those of eleven control animals of various ages and varieties were examined histologically In three rabbits atrophy of the prostate was clearly evident both microscopi cally and macroscopically In two dogs and two rabbits the strophy was extreme, in the other am mals it was not so pronounced. No case however mals it was not so pronounced ho case however escaped some atrophic change Brown rabbits were more susceptible than black. In the dogs the changes were less than in the rabbits Histologi cally there was either total atrophy or atrophy with degeneration especially round celled infiltration The epithelium was decreased and the interstitial connective tissue increased. The muscular parts were atrophied In rabbits the atrophy was com plete in dogs the central part around the ureter was more changed than the peripheral part Sasaki beheves that he has demonstrated that rontgen rays applied to the testicles not only inhibit the growth of the prostate but cause retrograde changes in the fully developed organ He discusses the histological changes 10 the disappearance of the seminal cells and the enormous increase of the interstitial cells He believes that \ ray treatment of the testicles is an effective therapeutic measure in hyper trophy of the prostate Already a few chinical re ports substantiate it RUBBLITUS

McCarthy J F Preliminary Report on Cysto scopic Operati Treatment of La ly Intra et al. Prostatic Intrusions and other Ob structive Conditions n the Region of the Vesical Sphincter Am J S g 913 xxvu 327 By bug G, ance & Obst

The author reports two cases an detail in which cremitable results were obtained by the use of the Oudin spark. Both patients were suffering from request instructions and in both these was an applications of the spark were made a week spark for two or three treatments and in both cases marked improvement resulted within two weeks marked improvement resulted within four or five weeks after beginning the treatment As the interval since the disappearance of the definitely that the care is permanent. The author emphasises the fact that cytrocopical.

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The author emphasizes the fact that cystoscopical examinations should be made in all patients over fifty who present symptoms referable to the genutomany tract. He does not lay much stress on the rectal examination in these cases, as the prostatic enlargment may not show there

He emphasizes the necessity of estimating, from a number of sittings, the amount of unne remaining after the patient empties his bladder as thoroughly as possible. He deems it an imperative necessity to

make a cystoscopical and posterior endoscopical examination of patients showing any appreciable amount of residual urine as in all likelihood it is at this time particularly, that these patients will prove amenable to nutable cystoscopical operative treatment

EDWARD L CORNELL

#### MISCELLANEOUS

Rubuschow S Rontgenology in Urologic Surgery (Die Röntgenologie im Dienste der urologischen Chururgie) Zitze f wel Chr. 1913 i 452 By Zentralbl f d ges Chr. u i Grenageb

The presence or absence of permephratic adhesions can be determined only by means of rotalgenoscopy (Durchleuchtung). Collargol argyrol or oxygen mjected into the bladder and renal pelvis facilitates the rontgenological examination aids in the diagnosis and with sufficient care is not dangerous to use In the examination for floating ladney or by decomplarous pyelography is indispensable. In the companion of the present of

All the sources of error thuty two in number in the diagnoss of lathey stone are chaustively con sidered. In 3 to 5 per cent (2 per cent — Immel mann) stones are found at operation which could not be demonstrated rontgenologically. The most important sources of error are the chronic indurative process in the kidney tuberculosis calcified lymph ghands and intertunal stones. In the rottgenology of urteral stones forty are sources of error are motored and thoroughly discussed in pair. Fifty-one rontgen sketches are included in this practical compilation.

PRANCHEM TOWNSHIP CONTRIBUTION OF THE PROPERTY OF THE PROPERTY

Pousson and Desnos French Encyclopedia of U ology (Encyclopédie francisse d urologie) 1 ris O Doin 9 4 By Journal de Chirurgie

When this work of which the first two volumes have just appeared as finished it will without doubt be the most important and extensive contribution that has ever been made to the science of urology. The term encyclopedia is justified for it is a thorough presentation of all that is known at the present time.

in regard to the urmary organs and their diseases. There are are volumes of a thousand pages and with many splended illustrations. It is educed by sarty five collaborators well known for their previous writings or their special work in unology. If it is misuled in two years as planned and the succeeding volumes have the same scientific value and the precision and clearness that the first two have the directors and editors will have every reason to be directors and editors will have every reason to be proud of it. Scientific unology organized in France and was largely developed and perfected by the Nicker school so it is peculiarly fitting that such a

work as this should have been conceived and written there. The first two volumes are a guar anty of the value of the whole

In the first volume there is first a history of urology edited by Descros extending from early Egyptian times to the present illustrated with a large number of engravings and reproductions of manuscripts of great interest

The second part is an anatomical and physicing leaf study of the unnary system beginning with a study of fit comparative anatomy by Pellegran is allowed by a study of the various parts of the unnary apparatus in max. Paper describes the kidney writer and toppersonal capsulers and Ambard Chicky writer and toppersonal capsulers and Ambard The rest of the unnary apparatus is described by Ra. Sci. and Description of the comparatus is described by Ra. Sc

More than uso pages are devoted to a study of normal and pathologic urne by Labat who gives detailed descriptions of the various methods of analysis, and by Achard and Parseau who discuss the tourity bacteriology and septic properties of the urne.

In addition to these three principal parts there are three chapters possibly of less scientific value but of great practical interest on stepus and anticepus in unology matruments used in unology and general and local anewhetics. The first tear by Perier Janet the third by Frethschoff They go e details as to the choice of instruments scientiation of apparatus electric installation and indications and contra understons for various and

The systemstic description of the various sheers of the unnary system begins with the second column. This whole volume is directed to the particular of the state of the second column. The state of these not complete it is begins with a study of the examination of the thingers and universe the anatomical and functional examination being written by Pastens and Ambard and the radiological examination by Artelin Each of these three authors has made original contributions to progress in the field in which he writes

Traumátisms, wounds and continuous of the forms of nephrals requiring surgical interval filter Boyer the forms of nephrals requiring surgical intervention by I couson, with whom this is a favorite subject surgical nephrals pychits and pycomphrones by Michon diseases of the Ludney during pregnancy and diseases of the ganda organs of avonen by Chevassi Th a chapter will be of interest to the general surgices and obstetrican as well as to the

urologat. Ponsson and Carles ducus all forms of calcule, and Leguru gives a masterity description of renal lathusus. In conciumor, amal inhercious is discussed by Rafin and tamors of the lading by Tuffier and Brechot. Fach of these parts has a rompiete holography and abundant and well chosen illustrations.

Starkey F R.: The Organs of Internal Secretion in Relation to Male Organs of Generation. Leol & Cule Rev. 1913 1911, 468

In this article Starkey relia our attention to the relation between the glands of internal secretion and sexual activity. He brings out the point that raily puberty is often due to the hyperactivity of the major and the gland in frequently as companied by succeedingly succeedingly integer extension as young community of succeedingly sunday extension as young the succeedingly sunday the sunday will as somatic infantisism. In hyperactivity at all as somatic infantisism. In hyperactivity and there is a marked effect upon the growth of the male generates and also hyporactivity is labelle to produce infantisism of these sections.

ile brings out the point that individuals of precious servail development are usually aboet of stature with a square body and short legs and a produse development of bar. The opposite indicates an underdevelopment of the sexual organs. He notes also that uncrassed function of the thyroid produces full development of the sexual organs and that surcomplete development of the

thyroid produces full development of the sexual organs and that uncomplete development of the sexual organs and uncomplete development of the sexual organs and uncomplete development of the thyroid are frequently noted together. He believe that the putuatry body is uncreased in activity at the time of puberty. Also that the thyroid are enlarges and the voice changes and there is an in crease in the development of hair

After puberty is established hypopatintarem is responsible for sexual spathy impotency and shriveling of the sexual organs. The sudborb lieves that many persucious sexual behits are caused by abnormal development of the pineal and chyroid glands.

He brings out the point that after 45 the male expenences a recession of the sexual activity and that offentimes at that age the male becomes in bilanced from a nervous standpoint and anous constitutional disturbances appear thus producing really a male climateria.

§ C Spotzs

# SURGERY OF THE EYE AND EAR

EYE

Knapp A: Report of a Case of Traumatic Equatorial Rupture of the Sciena Arch Ophth 10 3 in 494 By Surg Gynec & Obst

Anapp reports a case of rupture of the sclera at the equator which was dagnosed after removal of the eye The tension remained normal after the rupture A bluish swelling on the sclera proved to

be a hæmatoma in Tenon's capsule over the site of the rupture C G Dazing Zade M: Contribution on Metastatic Ophthal

Zade M 1 Contribution on Metastatic Ophthal mia (Kasuntucher Bettrag zur metastatuschen Oph thalme) Arch f Ophth 913 hzzv 294 By Zentrahl f d ges Chir u 1 Grenzgeb

The evidence seems conclusive that in all cases of metastatic supportative ophthalians the invading organisms gain entrance into thee; ethrough embolic over in those cases in which bacterial examination is negative. It is not so easy to tell however by maximum examination how much bacterial reproduction has taken place post mortem in the tissues called an examination of the contract of the contr

Four days after admission in spite of surgical and serum treatment there developed bilateral metastatic units and on the eighth day the patient died. In the right eye the almost completed destroyed choroid coat the slightly affected corpus cliate the ins and the hypopy on were free of coct Suppuration must have been of purely took nature

The retina which had separated from the other coats and was almost completely destroyed consisted largely of colonies of cocci. The course of the infection in the vessels of the retina could not be demon strated In the other eye the primary involvement of the retina could be more conclusively shown The capillanes in the sheath of the central nerve fibres were filled with cocci. The other anatomical findings were the same as in the right eye save that the retina was still adherent. Here and there the cocci had penetrated from the retina into the vitreous humor but the outer coat of the eye was intact As in most other cases there was endocarditis and the metastases in the eyes were the only localized points of inflammation in the area supplied by the carotids The minute calibre of the retinal capil laries seem to predispose to embolic inflammation the infection having begun in the hand five necks before The streptococci in the cases of metastatic ophthalmia seem to be much more virulent than the pneumococci and more particularly is this true of

the hemolytic streptococcus longus of Schottmiller which existed in this case. The possibility of post mortem multiplication of the cocci must be accepted in the case cited by the author the most rapid in crease probably took place during the few hours before death. During hid the organisms probably do not remain long at one point in the capillaries. They enther penetrate the vessel wall of are driven another case which did not come to post mortem in which there was a unalteral ophthalma—a case of pithiass bulb following memiogia with an essociated cardiac affection of similar origin.

Zentmayer W: Hydrophthalmos with a Histo logical Report of Two Cases One of Which Presented a Congenital Coloboma J Am H An 1913 in 103 By Surg Gynec & Obst

After a succinct but comprehensive description of hydrophicalmos the author summarise the opinions of contributors to this subject as to its reliciogy and treatment. He then analyzes the rephes received from a large number of ophthalimus surgeons in answer to say questions relating to the advassibility of operation type and results of operations percentage of cases showing evidences of in an engree and concludes that the best method of treatment was some form of selerations?

The wealth and warnation of opinion as to the telology of hydrophthalmos is emphasized by the summary. The author's cases tended to support the use of several contributors that the essential factor as an absence or incomplete development of the canal of Schlemm and that a probable contribut ing factor is the presence in the angle of the anterior chamber of prenatal connective tissue

Judging from the replies to his questions from contemporaneous American surgeons and from his review of the literature the author concludes that because of the anatomical condition indectionly is dangerous unless it is performed at a very early stage of the discose that paracentiess and activate stage of the discose that paracentiess and activate and the stage of the discose that the stage of the published by the method of Ferres Elboitt

E W ALEXANDER

Chante Classes

Harrower D : Two Cases of Chronic Glaucoma S mplex Treated by Iridotsass Arck Ophik 9 3 zlu 486 B; Surg Gyner & Obst

Harrower reports two cases of simple glaucoma treated by indotasis as advised by Borthen. He thinks the results have been exceedingly gratifying C G Daring La Grange: New Operation for Chronic Glau comm T Internat. Cong Med Lond 19 3 Aug By Surg Cynec, & Obst.

The old methods of operation for chronic glaucoma, indectomy seleratomy and similar operations have given very poor results. La Crange proposes a new operation which consists in making a subcon junctival fistula by the performance of a marginal anterior selectiony.

He has been performing this operation for ten years, and it has given very much better results than any other. He says that in all cases the hyper tension which is the chief symptom of glaucoma can be overcome. He reports to cases, all performed more than a year ago in all of which a persuasent fatula was established with relief of hypertension of the control of the control of the three to very acute vision their vision all were serious cases with trophic disturbances of the optile nerve or very acute vascu.

lar disorders. The technique varies somewhat with different operators. La Grange considers the trephine a diagerous instrument and use assistors or a pench to perform the revertion under the confunction in the one and article he describes his technique is great detail. Halt prefers a Graef's Luic' halfe Elliott and a large number of English operation perfer.

a small trephine La Crange reviews the indications for sclerectomy and the advantages to be denved from combining with it an ordinary indectomy He concludes that indectomy should be used only to avoid prolapse of the iris The curative value of his operation hes in the resection of the sciera that is in the establishment of a permanent subconjunctival fistula which allows the aqueous humor to pass out of the anterior chamber of the eye into the conjunctival sac Indectomy is sufficient for the cure of scute glaucoma but excision of the iris is not necessary in chronic glaucoma Anterior sclerectomy with a marginal incision spares the sphinter of the una with great advantage to the patient. He can use myotics successfully and keep the light regulating mechanism of the eye intact.

Selenkowsky: The Bisgacets of Sercons of the Chorold: Two Cases of Sercons with De-Cressed Inter Construction and Decreased Inter Construction of Sercons of the Sybels of Sercons of the Sybels of the Sybels of the Sybels of the Sybels of the Sercons of the Sybels of the Sercons of the Sybels of the Sercons of August and Exemistration 5, 531, and 541, and 542, and 542, and 542, and 543, and 544, and 544

From his own cases and those described in the interactive the author comes to the foundation channes. The pageent of melanotic search was a search of the pageent and its localization has its own to the color of the pageent and its localization along the history was the color of the pageent and its localization along the history western and the color of the pageent in melanotic sarroum originates in the stroma of the

choroid cannot be denied. The different forms and the sure of the chromatophores in the pigmented part of the tumor the proliferation of the pigment, the cplibelum of the retina, and its peartrains into the substance of the tumor show that both views as to the origin of the pigment in melandix acroms are justified.

Crédé-Horder C.A.: Ophthalmia Neonatorum Etiology Pathology Therapy and Prophylatis (Die Augeneiteung der Neugebonenn Arkloige Pathologie Therap e und Prophylaxe) Bedin Kar

ger 1915 By Zentralbi f d. ges Gynak u Geburtsh s d. Grenzgeb

Bleorchea in the newborn may be due to an increase other organisms had didnote to the processor. And a from the bacterologic findings the difference in the climical course characterises the angeor-fixed from the genorrhead. The non genorrhead from the protective of the processor of the forth had not no crumstance is the cornea affected. For the manner of the inference to the presence of the forth had in the vages without the protective covering of the gradient and any organisms of the membranes increase the danger Over one quarter of the numbers currence the danger Over one quarter of the number of cases of ophthalma neonatoryum are late infections

The author denses the explanation given that the incubation sprend in these cases is prolonged I addition to the direct transference of geococca is the eye of the new bors there are other possibilities of infection. The organisms, any have enter the barry of the control of th

to the eye speculait. Prophylams is naturally of extreme importance, and the author discusses it in detail. The mid imitation which occasionally follows the unroduction of silver into the eye is unimportant. After unmeron meat gations the author state that this is confined as a rule to the conjunctive of the hold supportant is new days a large number of silver the state of the conjunctive of the hold supportant in sew days a large number of silver and the state of the state of the silver and the state of the silver and the si

Bruns, H D Ophthalmia Artefacta Old Domin son J Mod & Surg 10 3 xvd 36 By Surg Gynec & Ohn

Bruns reports a case in which both eyes were repeatedly injured by the patient herself the in juries recurring with suddenness over a period of

many months

The clear defination and black color of the lessons
were unlike anything known to the observers. The
yangu of the right eye was reduced to light percey-

tion, and that of the left, to the perception of fingers at eight feet Multiple symblepharons resulted from the ulcers. The patient had also a self inflicted dermatitis The cause of the black sloughs C G DURLING is unknown

Shambangh G E : Chronic Obstructive Middle Ear Deafness. J Am M Ass 1913 izi 1206 By Surg Gynec & Obst

In this article the author brings out the im portance of differentiating more clearly between the various cases of destructive middle-ear deaf ness so that the cases likely to improve under treatment may be separated from those in which treatment will be of no avail

The author believes that the term simple or chronic non purulent atitis media should be substituted for chronic catavrhal otitis media because pathologically the process is one of infection of the haing membrane with round-celled infiltrations and thickening and the subsequent formation of fibrous connective tissue Associated with this process may be tubal occlusion usually with retraction and thickening of the drum mem brane The relation between the severity of the condition and the extent to which the hearing is impaired varies greatly. The chief cause of deaf ness hes in the adhesive bands which connect the ossicles and membrane to the walls of the tym panum Folds of mucous membrane form a fan shaped ligament around the neck of the hammer and often a more or less complete partition between the attic and the cavum tympanum proper Normally these folds are composed of two layers of flat epithehal cells with a few blood vessel between Inflam mation however results in a marked thickening which must constitute an important factor in producing rigidity of the conducting mechanism

On the whole the prognosis with regard to the progress of deafness is better if the occlusion of the tube has disappeared persistent tubal occlusion usually indicates a process which is still active and one in which very probably there will be further increase in the deafness. Another factor in the prognosis is the development of secondary de generate e changes in the cochlea noted by a defect for higher notes of the Galton whistle The chances of an improvement in the hearing are less in those cases in which occlusion of the tube has disappeared On the othe hand the defect in hearing in cases of persisting occlusion of the tube especially if secre-tion in the tympanum is present as a rule is more readily impaired by treatment EARLE B FOWLER

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K H O Th Value ! N soph ryngral Surgery in th Treatment of Chronic Exuda tive Ot tas Media Bull J has H pt ; H sp 9 3 XXI 289 By Surg Gynec & Obst. The author believes that it is an accepted fact

that chronic exudative otitis media with its char

acteristic tendency to progressive deafness, has for its principal cause and continuously exciting factor some abnormality in the nose pharynx or naso pharynx such as hypertrophied turbinates deflected septum hypertrophied or submerged diseased ton sils, or adenoids He believes further that even after an acute evudative otitis media is established the ear can be restored to a normal condition and safeguarded for the future by prompt and proper treatment of the exciting factors in the nose and throat

The author reports 34 cases of deafness depending upon some nasopharyngeal abnormality and from a study of the chart it is observed that in 32 cases there was immediate improvement of hearing to some degree and in 2 cases there was no apparent change In none was there any immediate loss of hearing Later observations showed that of the 32 cases of immediate improvement 26 remained improved 4 showed additional improvement and only 2 lapsed back from the first improvement to the previous state of hearing

In conclusion the author sets forth very em phatically his belief that simple exudative ofitis media which is due to abnormal or diseased conditions in the nose or throat can be arrested in its progress by removal of these exciting conditions that in such cases the progressive deafness can be stopped and further loss of hearing prevented and that in some few cases the hearing power may be materially improved Success of this kind how ever depends upon the proper performance of naso pharyngeal operations so that there shall be com plete and thorough eradication of the abnormality without injury to neighboring normal structures GEORGE E BRILDY

Harris T: A Brief Consideration of Certain Recent Views Regarding Otosclerosis Laryn-goscope, 9 3 xxx Sos By Surg Gynec & Obst

The author weighs and considers briefly the various views in regard to the nature of otosclerosis In 1885 Bezold first demonstrated that this loss of hearing for low tones was the result of rigidity in the oval window

The early view in regard to the etiology was that the condition was the result of a disease of the middle Politzer holds that it is a primary affection of the labyrenthene capsule originating in the bone itself. New bone tissue is developed which presses out the old bone and advances toward the oval window and the stapes leading to stapes ankylosis. Siebermann believes the starting point is upon the Subtrimant believes the starting point is upon the border between the labyrathine capsule and the connective tissue bone, the earliest stage being the lacunary resorption of the bone by means of the Haversean canals while in other areas apposition is effected by means of osteoblasts Denker concluded that the disease was usually of a primary nature Manasse from an examination of seventeen tem poral bones from ten patients holds (1) That the predilection area for the diseased process is the

tunnitus persisted

antenor border of the oval sundow (d) That the disease is virtually a transformation of the labyran thine capsule. The new bone instead of beam compact contains trabecule between which has a greater or less number of large open spaces. This spongalying bone becomes much harder and closer with age (3) That the initial stage of the dresser proceeds from the blood vessels themselves. (4) Stapes ankylosis is not an essential part of the disease.

In summing up Harris concludes that much is yet to be learned as regards both the histology and the etiology and that we can offer little for a cure as long as the latter is so obscure. We can say with confidence however that in the majority of cases, a determination of the disease is entirely possible While nine years have claused since Den Ler's book on the subject Harns regards his description of the clinical disease as eminently correct Denker says, In the cases of progressive hard hearing, which show an unchanged or virtually normal drum membrane a patent Eustachian tube and the Bezold tread of symptoms we may conclude that the pathological changes are only in the stapes and the annular ligament and in the bony areas bordering on the oval window. In other cases where the functional test does not give the Bezold triad but where there is a pronounced reduction of the upper hearing limit where bone conduction is not lengthened and where the Rinné is not pro nouncedly negative there is an addition to the disease of the oval window an extension of the process further into the capsule of the labyrinth or an involvement of the membranous labyrinth.

EARLE B. FOWLER

Mignon M: A Modification of the Technique in Mastoid Dressing (Modification de technique des parsements mastoidenes) T Internat Cong Haf Lond 19 3 Aug By Surg Gynec & Obst

The author proposes replacing the bandages of a masted dressing about a week after the openation and the same apparatus called a masted cover. The apparatus has abook to fit around the ear which keeps it in place and protects the wound. This emphication in dressing is attrifactory to the patient gives a better appearance facilitate quick dressing and gives as good results. A Goss

Page J R. The Report of a Cas of Paracoustic Vertigo and Nystagmus Cured by Operation on the Labyrnth A Old Risal of Large get 9 3 xm 3 By Surg Grane & Obst

gel 9 3 km 3 hy Surg Orner does The author reports the first case in which the labyrinth operation was performed in this country for the relief of vertigo

The patient a man 44) cars of age gave a history of deafness and stuffiness of the right ear from boy hood but no discharge from either ear For seven years he complained of disturbance of equilibrium in exertion which accelerated the heart action and for two years he experienced decided

disturbances of equilibrium upon pronounce, certain letters and hearing certain counds, After the laby rinth operation the symptoms were

reheved and six months later the patient had as disturbance of equilibrium resulting from external sound or that of his own voice though a slight

ELLEY J P TTERM

Dench E B: The Technique of the Labyriath
Operation. Laryng scope 9 3 xxm 184
By Surg Grace & Obl.

Various methods of entering the laby anth for the relief of certain pathological conditions are described and divided into four groups as follows

r In cases of suppurative labyrinthius with probable extension to the meninges the author advocates entering the labyrinth according to the method devised by Neuman This method consists of a complete radical operation with lowering of the facial ridge to the c treme limit. The dura over the tympanic and tympano antral roof and the lateral sinus from above the Luce to the vicinity of the jugular bulb are exposed. The dura is separated and the bone in front of the sinus is removed toward the facial ridge until the two limbs of the posterior semicircular canal are opened and continued untithese openings become shits A fine probe is inserted and carried into the vestibule. The openings are then enlarged until a probe of ordinary size can be inserted into the vestibule. The auditory portion of the labyrinth is drained by removing the thin later of bone between the oval and the round windows

s In cases of circumscribed labymithits his are occasionally found at the time of the radical operation and in which there are no symptoms or only the fistula symptom is present, the author curettes the diseased area

3 In draining cases of diffuse laby mithits with no symptoms of extension to the meninges the author follows the radical operation with lo ering of the facial ridge by opening the horizontal semicralist canal at its most prominent portion and inserting a

4 For the rehef of vertigo or vertigo a d hamited in chronic non suppurati e inflammation of the labyrinth, Dench believes the vestibule can be opened below and behind the prominence of the horizo tal semicircula canal without performing the radical operation and has carried this out on the cadaver Another means I entering the vestibile developed by the author in experimental work is a complete mastord operation with wide exposure of the tympano-antral roof The dura was exposed and the bon removed inward until the prominence of the superior semicircular canal appeared The superior wall of the horiz neal semicircular canal and the superior surface f the petrous p ramid were removed whereby the superi r semicircular canal was opened The vestibule was opened b removing the roof of the superior semicircular canal The destruction of the canals and nerve endings was EARLE B FOWLER. completed by the curette

# SURGERY OF THE NOSE, THROAT, AND MOUTH

NOSE

Voorhees I W: Conservative Surgery of the Nasal Septum J Am W As 93 ks 1195 B) S rg & nec & Obst

The surgeon is cautioned to make a very careful diagnosis before performing the submucous opera tion on the septum as good respiration is not always prevented by a badly deformed septum. The causes producing nasal insufficiency may be anterior posterior or between the two A pecial type of insufficiency is that in which with each inspiration the alæ past sink in and thus cut off the air entering the nose This is due to a weakened condition of the accessory muscles or cartilages in the wings of the nose. The turbinates are also frequently the cause of the obstruction through hypertrophy either of the bone or of the soft covering Soft hypertrophy may be either local or constitutional in origin. The chief constitutional cause i intestinal cardiac or Frequently pasal insufficiency arises from a nasal discharge arising either in a sinus of the mucous membrane and produced either by local or by constitutional factors. In chronic sinusitis the discharge falls into the nasal fossæ dries and forms crusts which occlude the nasal passage. In such cases if the septum is removed no advantage is gained because the discharge still continues the naso-pharynx the chief causes of obstruction are adenoid posterior tips of the inferior turbinate and polypi Unscientific practitioners use these facts as excuses for performing the submucous operation which as it does not cure the patient is brought into disrepute. The septal causes of nasal obstruction are deviations thickening fractures spurs gumma abscess tuberculum septi

The purpose of the submucous operation is to straighten not to remove the septum. All that is required as to take out the redundant portion and fincture the crooked elements so that they may be beld in place by simple splants. (The Asch aub microus operation.) If the deviation is limited to the ethinoid the little finger should be streluzed and passed into the nostral and the perpendicular plate should be frictured by pressure. The nose should then be packed with long stray of strelle gause saturated with hough petroleum which should be removed in twenty four hours. H. R. Branes.

Mackenzi G W Compl cations that May Arise during or after Operation for Correction of Septal Deviation J Am H A 933 in 1197

B Surg Gynec & Obst

One should always keep in mind the danger of toxic effects of the anaesthetic used. Much care is

needed in making the primary incision which if improperly done will lead to delay and result in damage to the mucous membrane Perforations of the mucous membrane may be obviated by filtration of the membrane precedure the operation

Perforations are serious when they pass through both sides at corresponding points 4 button hole in the mucous membrane on one side only need cause no anxiety A successful means for replacing the flaps prior to applying the dres ing is to have the patient blow the nose forcibly first from one side and then from the other Hæmorrhage fracture faulty packing infection flattening of the nose hæmatomas, erysipelas empyema are mentioned as complications to be avoided Excessive hæm orrhage is usually venous and occurs low down and in front Secondary bleeding has never been noted In packing the operator should be careful to have the raw surfaces of the mucous membranes in apposition A frequent cause of infection is a previously existing disease of the sinuses the tonsils or the adenoids

Severe reaction may follow the operation if at the same time an operation is performed on the turbinates or accessory sinuses Removal of too much cartilage may result in flattening Proper packing will prevent hematomas. In suspected cases of empy sema of an accessory smus an attempt to cure it should be made before operating upon H B Baown.

Auerbach J The U es and Limitations of Paraffin in the Treatment of O ena N Y M J 9 3 xcvi 566 By Surg Gynec & Obst

This paper is based on the study of 32 cases of genuine ozens the most pronounced synchrotrons of which are fetor and crust formation. That the case may come under the defination of genuine ocens as given by Franche the author has not included a case of accessory sause empyema or a case having local areas of suppuration.

By the use of hard parafin (melting point 50 to 2 C) emboism sometimes following the injection of softer oil was avoided. Under thorough aseptic technique the parafin is imjected without previous mission under the mucous membrane of the inferior turbinate or septum or floor of the nose as the individual case may indicate.

Within from three days to a week the secretion becomes more liquidated and less tenacious and there re fewer crusts

This improvement lasts from two to five months when remjection becomes necessary. The author reports eight cases demonstrating the relief obtained

by this method

Sluder C r Etiology Diagnosis, Prognosis and Treatment of Sphenopalatine Ganglion Neuralgia J Am M Arr 1913 km 1201 By Surg Gynec, & Obst

In previous articles Sinder has pointed out the very extensive distribution of perven imains for the sphenopalatine (Afecké a) ganglion and has drawn a clear picture of the large area of pain dependent upon a lesion in its structure. This nerve center becomes incloved by the extension of inflammatory processes from the posterhoundal sphenoidal cello or from the membrane of the nose Some cases of sphenopalatine ganglion neurals of the sphenoidal cello from the membrane of the nose Some cases of sphenopalatine ganglion neurals are due to a systemic toom. In all of his scars are due to a systemic toom. In all of his scars are due to a systemic toom a lawly stopped the pain though there may be a recurrence necessitating a second application. The ganglional lesion may be produced by Jesions.

The ganguous leaton may se produce of yearload of the nerve trunks which supply the ganguon (the second dissons of the faith and the windsa nerves) the intrasphenoidal application of tocaus or some local arrethetic applied centrally to the ganguon docal intellection of the ganguon docal tittle good injected into the region of the ganguon docal tittle good injected into the ganguon titelf it is of but temporary axial in relevant the part of the ganguon trail in the ganguon trail it is of but temporary axial in relevant the part of the ganguon trail in the ganguon trail i

In considering the treatment of the pain by injection the author points out the anatomical difficulties in the use of bent needles and states that a stra cht needle is best and may be passed through any nove The pterygomaxillary fossa is constantly reached at 0 33 cm. back of the posterior tip of the middle turbinate which marks the anterior limit of the sphenopylatine foramen and the ptery gomazillary fossa lies external to the plane of the sphenopalatine foramen Therefore if the needle is passed under the posterior tip of the middle turbinate at its junc tion with the lateral wall in a direction upward backward and lightly outward it must pass into the ptery gomazullary forsa and enter the imme dute vicinity of the sphenopalatine ganglion. The distance from the point at which the needle enters to the ganglion is o 66 cm When local applications fall to stop the pain an injection of o 5 cc of 5 per cent phenol in water or in 95 per cent alcohol is II B Brown recommended.

## THROAT

Da is II J Chart and Brief Notes of a Case of Ca ernous Sinus Thrombosis Following Left Tonsillit sin a Boy Aged 19 Faul Termina tion in Eighteen Days Prec Rey See Hed 1913 v., Lavyngol Sect. 74 Gang Lobert Obs.

By Surg Cymec & Obst

The author reports a case of unlateral parenchy matous tons litts in a previously healthy boy with oscillations of temperature varying from 98 to 100° with rigors and symptoms of cavernous sinus thrombous developing the thirteenth day of illness followed by death in five days In the ducussion which followed, O'lially Thompson and Horne agreed that it was afficient Thompson and Horne agreed that it was afficient to trace the route of infection of the caverand manner of the control of the caverand that the control of the caverand post-mortem findings seem to suggest that even a so-called tonal cases the thrombons was really of sphenoidal origin. If Whale claimed that the sphenoidal origin M Whale claimed that the route of infection was through the tonal pterpool plerus facial and angular venus, and then by way of plerus facial and angular venus, and then by way of the ophthalment venu. Extry J Partnerson

Sheedy B D: The Results of Tonsillectomy under Local Assesthesia J Am If Am, 1913, in 1227 By Surg Gynec & Obt.

This article gives the anatomy of the tonsil, an analysis of deformities of the throat caused by poor operations and a description of the author's met of performing tonsillectomy. He believes that deformities caused by an imperfect method of enucleating are less harmful than incomplete removal (tonsillotomy) and that deformities which do occur are the result of faulty technique Of the 100 cases examined 80 had visible deformities, and the other 20 seemed normal in all respects in 34 speech defects were noted for 2 or 3 weeks and in 16 for three months 4 lost the singing voice altogether 26 had better voices after the operation 5 per cent had difficulty in pronouncing certain words The defects in the throat were (1) Pillars seemed to have disappeared (2) pillars had grown together (3) a terror pillar had disappeared. In adult pa tients over 14 years of age, the author uses local anasthesia and in those under 14 years, general anaesthesia. In the case of adults he swabs the throat with a 10 per cent solution of cocaine and then injects a per cent or a 1 5 per cent solution of quinine bisulphate into the cellular tissue outside of the capsule A tonsil tenaculum is introduced into the center f the gland and pulled toward the median line until the junction of the mucous membrane and the capsule is brought into view With a bl t pointed tonsil knife the mucous membrane around the tonsil is then incised. If this does not evert the tonsil a nick is made t the upper angle After the tonsil has been everted a snare is passed around t a d t is slowly removed

Sheed; cla ma th t for two years he has not had anufic resulting deformuly in only a few exceptional creek was t impossible to evert the tonsi i.e. (1) where the pertroph) had already caused escape from the capsule (2) where the expende was holding a th n tieff a mass of castincal tussue and (3) wh re the tonsil was held down by castinnal bands.

A special formula of the capsule was a few or the capsule was a few or the capsule was not capsule to the capsule wa

McKenzie D Death after Tonaillotomy Proc Ro Soc Med 19 3 Laryngol Sect 84 By Surg Gynec & Obsi

The uthor reports a case of simple tonsillotomy (fi weeks after an ttack of acute catarrhal ottis media) in a child ( llowed in three days by sepas with a temperature [ 0 3 a d locally signs of cervical abscess. The local condition was reheved by in cusion and evacuation of pus but the next day the child developed violent pain on the left side with increasing respiration followed by death in 18 hours

The post-morten findings showed a double pneumonia and pleurisy with double empyema pericarditis and pericardial effusion and the or ganism obtained from both the clinical abscess and pleural cavity was spirochata dentium the or ganism found usually in the mouth

It is the author's custom to use a mouth wash of s per cent lysoform previous to operation but in

this case it was accidentally omitted

ELLEN J PATTERSON

Oppikafer E Primary Malignant Growths In the Pharynx (Uber die primaren malignen Geschwilste des Nasenrachenraumes) A ch | Loryngol w Rhinol 19 3, xxvu, 526

By Zentralbl f d ges Chi u l Grenzgeb

The author reports twenty-one cases are of carcinoma six of lymphosarcoma five of round celled sarcoma and three of endothehoma. The age of the patient did not seem to be a predisposing factor for any of these tumors. Almost without exception the prognosis is still hopeless. Of the twenty-one cases only one a hyphosarcoma re-covered permanently. This is more hopeful than either carcinoma or endothelioma, and may sometimes he cured by the prolonged administration of arsenic Retronasal carcinoma can be cured only rarely even by operation Routgen treatment was carned out in all of these cases and was frequently followed by temporary cessation of pain growths likewise decreased in size for a time but later began to grow again. Fulguration radium thorum and mesothorum only occasionally gave permanent results LOVIETZ P

Cocks, G II: Vincent a Angles Lary goscope 9 3 xx 929 By burg Gynec & Obst

Difficulty in recognizing the disease is due to failure to have a smear made. The bacilli and spirilla of \incent do not grow on ordinary culture media. The bacilli and spirilla are found in angina and stomatitis also in mastorditis chronic otitis media meningitis abscess of lung liver and spleen also in tonsillar abscess in the laryax about the pulp of carrous teeth and in crypts of diseased ton suls

The fusiform batilli may be differentiated from diphthena by Gram's method of staining Too large a percentage of cases is overlooked. The color of the membrane is gray or grayish in most cases

Of 265 cases 60 were diagnosed chinically as diphthena whereas the bacteriological report gave only 64 as being diphtheria. Lowered bodily re-sistance diseased tonsils teeth and gums are the predisposing factors in \incent's angina. It is a highly contagious disease

The removal of the membrane in angina leaves

an ulcerated area which bleeds easily upon being touched The disease is associated with diphtheria and syphilis and is often accompanied by stomatitis Blood examinations show a relationship between uncent a angina and lymphatic leukarma

The symptoms of mild cases of anguna are chilly sensations pain in tensillar region when swallowing malana slight lever submaxillary glands on same side usually swollen duration about two weeks. In severe cases one or both tonsils the pharynx uvuls and soft palate may also be involved pain and prostration are extreme tem perature from 99 5 to 105 Durstion uncertain. The disease has proved fatal in a number of cases. A differential diagnosis should be made between \u03bcmcent > angina and diphtheria ayphilis, and streptococcus anging. The only sure way for doing this is by bacteriological examination and a H BEATTLE BROWN Wassermann test

Dennis F L: Diagnosis and Treatment of Laryngeal Tuberculosis J Am M Ass 1012. By Surg Gynec & Obst.

The author believes that patients with pul monary tuberculosis should have routine laryngeal examinations in order that any involvement of the laryng may be discovered in its earliest stages

Primary laryngeal tuberculosis is rare and is not necessarily indicated by hoarseness or laryngitis in tuberculous patients for such patients may be suffering from catarrhal laryngitis, syphilis or cancer Hoarseness is not present unless the ul ceration involves the part of the larynz upon which phonation depends. Dennis differentiates between hoarseness and weakness of the voice. The latter is due to a general muscular atony He attaches no importance to pallor of the mucous membrane as it varies with the complexion and hæmoglobin percentage and is significant only when localized in the throat. He does consider important however a thin line of muco-pus lying in the posterior commissure and extending over the interarytenoid region Redness of one cord, when the other is normal is diagnostic of tuberculous laryngitis in a tuberculous patient Slight infiltration of the epiglottis thought to be tuberculous does not always develop the characteristics of tuber culosis The diagnosis of simple catarrhal farynga tis can be made only by watching its course. Pachy dermia of the posterior wall may resemble tuberculosis but the presence of an ulcer and pul monary involvement clears the diagnosis monary involvement clears the diagnosis and crusts in pharyagitis steek may be softened by warm water or oil, and removed The Wessermann re-action and the use of salvarian render the diagnosis of syphilis more easy but there may be a mixed in fection. In carcinoma of the larynx the diagnosis is based upon a lagging of the affected side the age of the patient the appearance the microscopic ex amination of a piece of the tumor and the tuber culm test. In umlateral posticus paralysis tumefaction and infiltration are absent

Laryngeal tuberculosis should be treated con sistently. The author has not observed direct beneficial effect from the use of tuberculin. The cough should be controlled by heroin or codeine Speech should be limited or entirely prohibited Painful deglutition should be relieved by the use of orthoform or anæsthesum or if the pain is from lesions below the epiglottis alcohol injections of the superior laryngeal nerve give relief which some times lasts for days. When the pain is due to ul ceration of the epiglottis amputation is advised. Locally for infiltration the author uses 3 to 10 per cent formaldehi de thoroughly rubbed in and for ul ceration a saturated solution of trichloracetic acid applied every seven or ten days, this in patients with high temperatures or extensive involvement of the larvax or who are too nervous for surgical treatment

In selected cases surpical measures are best For isolated tuberculomas, moderate infiltrations and alcerations the author uses a curette a nunch. or a galvano-cautery Cautery is used in extensive infiltration of the false cords. Surgical measures are indicated also as palhative treatment, and tracheotomy sometimes has a curative as well as a

nallistate effect Dennis concludes that the larynx should be fre quently examined and treated if necessary that care of the general condition is most important, and that in selected cases surgical measures hold

out the greatest hope for cure as well as for pallia tion A SPENCER KAUFWAN

## HTUOM

Steadman P St J: Pyorrhosa Alveolaris as a Predisposing Cause of Can er of the Alimen tary Gunal and Associated Parts T Internal Cons Med Lond 913 Aug By Surg Gypec & Obst

It is the author a belief that cancer rarely occurs in any part of the body unless it has been preceded by a more or less long standing chronic inflammation and that by far the commonest predisposing cause of cancer is a chronic septic co dition of the mouth

Analyzing the 112,801 deaths from canter in England and Wales during the years 1901 to 1904 be shows that excluding cancer of the sexual organs 86 5 per cent in the female and 85 1 per cent in the male ser occurred in the alimentary canal and its

associated parts Having seen then, that To quote the author elsewhere in the body in those parts either on the surface or closely connected with an ornice chronic inflammations are fairly common owing to the ease with which direct infection can take place and further that these chronic inflammations seem beyoud reasonable doubt in some cases at any rate to predispose to the subsequent development of cancer I determined to investigate the condition of the mouth with repard to that disease known as pyorthosa alveolaris in patients suffering from cancer of the alimentary canal and the associated parts because it is clear and indeed very well established that the constant swallowing of infective material from the mouth must be likely to produce chrome inflammation of these parts

In order to study a possible relationship between pyorrhes and cancer the author examined the mouths of 143 persons suffering from cancer finding that all but one of the whole number suffered from

pyorrhoes of varying degrees
Four hundred and fifteen patients of 35 years or over not suffering from cancer were examined with the result that 350 of these were suffering from pyorrhora of varying degrees

A further examination of persons of all ages was made in order to establish an age at which pyorrhora is common This revesled a gradual and markedly increasing tendency up to 85 3e rs From these studies of many cases of cancer and of many py orthoga cases the author constructed a graph showing a curve which was parallel to the curve showing the death rate from cancer in England and Wales

The author is convinced that pyorrhora alveolaris is by far the commonest predisposing cause of cancer of the alimentary tract. To sum up this

evidence we see

I That apart from the sexual organs over 86 per cent of all cancer occurs in the alimentary tract. 2 That long standing chronic inflammation in the sexual organs, and in other parts of the body is known to predispose the patient to the development of cancer

3 Th t the great majority of persons suffering from cancer in the alimentary canal have advanced pyorrhora alveolaris which has been present very many years

That this advanced periodontal disease is not nearly so common in persons not suffering from

5 That it is a well known fact the the constant swellowing of pus can and does in may cases bring about chronic gastritis

6 That the majority of patients suffering from cancer of the stomach have had chronic gast its for many years previous to the development of the malignant disease

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# EDITORIAL ANNOUNCEMENT

The February edition of the INTERNATIONAL ABSTRACT OF SURGERY marks the first anniversary of its appearance before the medical world. It is the desire of the editor to take this opportunity to thank the medical profession and especially the editional board for its co-operation assistance, and friendly criticism to which we owe the success that the first year has

brought the fournal
The perfection of a system and the creation of a staff capable of carrying
on the vast amount of work entailed in selecting and abstracting the best
surgical literature from all of the medical publications of the world have
necessarily been evolved slowly. At the present time however we believe
that our organization is complete and that the only afterations in our future
solicy will be the addition from time to time of new features which aim to-

ward increasing the value of the journal to its readers

This mouth marks the first appearance of the Critical Reviews one of
which will be published in each issue in the future so that at the end of the
year there will have been at least two reviews devoted to each of the six

which will be pulsashed in each issue in the future so that at the end of the six major surgical specialties outlined in our scheme

The Critical Reviews will comprise unprejudiced exhaustive compilations.

The Chitical Reviews will comprise unprejudiced exhaustive compliations of all of the current literature upon live surgical subjects and should be of great value to every surgeon since he may be able to acquaint himself with the advances in surgery following them step by step and have presented before him in one abstract the different theories and viewpoints of all authorities upon each subject.

# INTERNATIONAL ABSTRACT OF SURGERY

FEBRUARY 1014

# MONTHLY COLLECTIVE REVIEW

### THE NATURE OF SHOCK

A CRITICAL ARSTRACT

By MATOR G SEELIG M D ST LOUIS, MISSOURE

7 THIN the past year or two America has lived through a renaissance of the shock problem - a renaissance activated by the advancement of a new theory and a new type of therapy This new line of therapy is em phatically prophylactic rather than specific and rests on the basis of intricate detailed studies in cytology It is essential that this new statement of the shock problem should be subjected to a searching critique, and such a critique necessitates passing in review all previous work done along this line That such a necessity confronts us will be apparent when we consider that for nearly a century investigators and clinicians have been propounding theories and promulgating doctrines that definitely located the cause of shock in an aberration now of this function or organ now of that Without exception none of these various theories has stood the tests of searching crit icism It is rational to hope therefore that by passing the various older working hypotheses in review we may at least partially comprehend why they have failed and likewise orient ourselves in a suitably critical attitude regarding the strength and weakness of the new theory

The word shock was first used clinically in the latter part of the eighteenth century Up to that time there was no single word to express the notion of grave organic compromise following trauma and unaccompanied by demonstrable organic changes The ancients who were not unfamiliar with the symptom-complex had dismissed the problem by referring the causative agency to some deus sgnotus but as medicine became less and less mystic, and as causal relationships began to be more and more firmly founded the shock problem gradually came into

In a previous paper written before the birth of the newest theory of nerve-cell excitation I pointed out the interest attached to the facts that the theory of vasomotor exhaustion in shock had been put forward by Keen and Mit chell in 1864 then forgotten and again brought forward by Crile in 1900 that the theory of reflex inhibition which had been formulated by Levden in 1870 was lost to view and then revamped and restored by Meltzer in 1908 that the theory of primary cardiac involvement had been developed in extense by Blum in 1876 had lost caste and was then rehabilitated by Boise in 1908 view of all this, there is a certain amount of fascination in the knowledge that our latest theory of inordinate excitation of the nervous cellular mechanism was anticipated purely on prior grounds, by Travers in 1827 and that Travers reasoning was further supplemented by Sir Astley Cooper in 1835 Obsequies and resur rections have never been quite as frequent as this in any other surgical field.

And how may we explain this constant change of front? On two grounds In the first place a failure to recognize what was so clear to the elder Gross namely that shock is a rude unhanging of the entire machinery of life and that we must therefore proceed cautiously in attempting to

locate the unlungung at the door of any one particular organ or function Secondly we find an explanation for the multiplicity of theories in the frequent misinterpretations of experimental data or in the drawing of unwarranted conclumons from properly collected data. For example to take un the most common type of confirmed faulty reasoning, almost every investigator of shock develops his line of thought around the central point that low blood pressure signifies shock. And so indeed it does, but it has never been proved and should never be assumed that low blood pressure is the primary causative agency of shock. Blood pressure readings are to shock what thermometric readings are to a summer day One tells us the degree of pressure and the other the degree of heat, but what causes the rise or fall of pressure or the greater or leaser heat -that is another problem. And jet as one goes through the literature of shock it is necessary to battle against the conclusions that low blood pressure either causes shock or is synonymous with it.

The needs of more specific criticism make it imperative to deal entically with the development of the more commonly accepted theories of shock, as we know them today In order to do this we shall select for analysis the following prevalent doctrines regarding the causative factor in shock which is stated variously to be

- r Vasomotor exhaustion and paralysis. Cardiac spasm and eventual failure
- 3 Inhibition of the functions of all the organs. Deliciency of carbon dioxide in the blood
- (acapnus) c Alombologic changes and eventual partial

or complete disintegration of the ganglion cells

The theory of vasomotor exhaustion as the essential cause of shock was established on what seemed at the time to be a firm basis by Crile. His argument is based on the facts that the essential phenomenon of shock is low blood pressure and that since there is no demonstrable lesion in fatal cases and no later effects in those that recover we must assume exhaustion rather than structural lessons to be the cause of this This exhaustion may be resident in the cardiac muscle cardiac centers, blood-vessels or vasomotor centers The heart is not ex hausted for in profound degrees of shock if the pressure be raused artificially the heart will be found to be competent the cardio-inhibitory center is not exhausted for it responds to stumulation during active shock the cardio-accelerator center is not only not exhausted but is active up to the time of death furthermore shock occurs

even when the heart is isolated from the nervous system by severance of the vagi and accelerantes. Since we may exclude the heart as an essential factor in shock we must look to the loss of peripheral resistance as the essential factor. The peripheral nerve-vascular mechanism is not exhausted for it invariably responds to an intravascular injection of adrenaim therefore it must be assumed that the vasomotor centers themselves are exhausted and this assumption is confirmed by the fact that in shock these centers do not respond to electric stimulation of peripheral nerves to severe traums to physiologic doses of

strychnine or to deep asphyxia In essence this theory asserts that the vasomotor centers are exhausted and that therefore the pempheral vascular system is toneless and relaxed In Crile s own experiments there are many data that may be used to prove his conclusions not entirely warranted. But rather than enter into a prolix entiresm of data, it probably will be more interesting to state the various grounds on which later investigators have attacked the vasomotor exhaustion theory In England the war was opened by Malcolm, who, on purely clinical grounds, contended that the vasomotor centers were active throughout shock and that the peripheral vascular system was contracted rather than relaxed. He argued to this conclusion from the facts that in shock the surface of the body is cold, the skin pale the pulse small the mucous membranes blanched, and the bleeding from surface wounds scanty. This carefully worked out clinical argument created a storm center, with Malcolm against Mummery in the cortex. As a matter of fact, the argument degenerated to the level of rather butter polemics and this despute the delightfully suave and wellpointed compromise suggested by Sheen, who showed that Malcolm had failed to take into consideration that in shock, an unduly large proportion of the blood is in the abdomen and that as a natural result the pempheral vessels are small being neither dilated nor contracted but rather passively retracted" This was a wise observation of Sheen, too scantily noted by all investigators of the abock problem. Crile himself pays practically no attention to the abdominal venous engorgement (s eno-pressor discoullibrom of Henderson) and some of my own experimental work despite its fairly general acceptance is open to serious criticism on account of failure to realize that the altered distribution of the blood in shock

must be taken into consideration at all stages of The vasomotor exhaustion theory has also been

every experiment

attacked directly by the physiologists Porter Henderson and Lyon and indirectly by numerous other investigators who bring forward theories of their own-Vale Kinnaman Schur Weisel Bainbridge and Parkinson Porter working alone and with Quimby showed that the central end of the sciatic could be stimulated for hours without causing a fall of pressure Furthermore they found that when an animal was in extreme shock the vasomotor centers nevertheless responded to electric stimulation thus demonstrating that exhaustion of these centers could not be predicted Porter furthermore called attention to the fact that we must consider fluctuations of blood pressure not from the absolute but from the percentage point of view

Tyrell Gray and Parsons made the important suggestion that sumply because an animal in shock does not show a rise of blood pressure on attimulating or traumatizing a certain part of the body does not prove that the vasomotor centers are exhausted. It may be probable they say, that the pain impulses may have exhausted the synapses in the path from the part stimulated to the center and that the vasomotor centers.

themselves are intact.

Henderson believes that in shock the vasomotor center does its full duty almost to the last that failure of the circulation is due to the diminu tion of the volume of the blood by transudation of its fluid out of the vessels into the tissues, and that there is no fatigue or inhibition or failure of any sort in the vasomotor center Henderson noted in his experiments that his dogs usually died of respiratory failure long before arterial pressure had fallen to such an abnormally low level as would accord with Crile's definition he shows further from Crile's protocols that respiratory failure was a strikingly important phenomenon and on the basis of this observation he not only denies the possibility of vasomotor exhaustion but also works out his own theory of acapnia In part, he supports his arguments against vasomotor exhaustion by the conclusions of Seeing and Lyon

Seeing and Lyon in two papers, contest the subdity of the doctrine of echastion of the vasomotor centers. In their first paper they measured the outflow of blood from the femoral vian in a normal dog before and after section of the scratic nerve. After section of the nerve the outflow has more rapid as was to be expected. This same experiment was performed on a dog in shock and despite the shock, the outflow was more rapid after section of the scatter, even more rapid proportionally than in the pormal do-

thus demonstrating that the vasomotor center was transmitting active tonic impulses through the scratic, even in a state of profound shock Moreover by ophthalmoscopic examinations they determined that the arteries of the retina not only did not dilate but rather that they actively contracted as the snimal went into shock As joint author in this work it is only fair for me to state that Erlanger contests our reasoning as regards rate of outflow and also that we should have proven but did not that the contraction of the retinal vessels is really an active tonic con traction and not a passive one due to empty vessels In a second paper Seelig and Lyon attack the problem from a different point of view They emphasize the fact that in normal animals stimulation of the central end of the cut vagus causes a rise of blood pressure and that this rise occurs even when the animals are in the profoundest degree of shock Furthermore utilizing Porter a doctrine of percentage rise they found that the rise was proportionally as high in profound shock as in the normal animal. In order to exclude all reflex effects on the heart they cut both vags and removed the right and left stellate gangha but even after these procedures stimulation of the central end of the vagus was followed by a rise in pressure. These authors conclude from their experiments that the vasomotor centers are active in shock.

Shortly after the publication of Seelg and Lyon's work Bartlett by measuring the rate of inflow of saline solution into the femoral vein reached the conclusion that during shock the vessels were relaxed and that the tone of the vision motor centers was decreased (not evaluated). Bartlett however does not seem to have sufficiently controlled the question of collateral circulatory phenomena nor the question of the escape of the injected salt solution from the smaller artenoles of the extremity experimented upon

All in all the weight of evidence seems to be that the vital vasomotor center a center con trolling a so-called fundamental function does not ethaust as easily as the doctrine of Crile presupposes indeed it would seem that it is one of the last centers to break down in shock

The failure of the \*asomotor exhaustion theory to account statistacionly for the condition of shock naturally led to the propounding of other theories. Of these none has made a stronger appeal to the chaictan than the doctrine that cardiac failure a the essential element in the obscure symptom-complex—a principle laid down most emphatical by by Bouse atthough Howell also admits cardiac.

shock as well as vascular shock. Boise who bases his views largely on the experiments of Crile Howell and Porter attempts to prove that as a result of excessive stimulation of the aug mentor nerves of the heart (due to pempheral trauma) this organ is thrown into spasm that therefore in shock there is increased systole decreased diastole lessened output of blood from the heart and therefore low blood pressure The owered blood pressure in its turn leads to further decrease n the output, establishing as it were a vicious circle By administering veratrone to chocked animals Boise claims to have remedied the condition of shock markedly by causing a lecrease in systole an increase in diastole and a slowing of the pulse rate. Unfortunately Boise's argument cannot be accepted. He fails to take into consideration the existence of depressor impulses he fails to realize that the ardiac output is necessarily limited owing to the act that the splanchnic venous area is encorred and furthermore he has not explained away the rork of the numerous investigators who have horoughly isolated the heart from all afferent anths and still been able to induce shock. The

reart is compromised in shock beyond a doubt

out cardiac inefficiency is certainly not the

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rimary cause of shock. Meltzer, it was, who developed in his char cteristically lucid fashion the doctrine of inibition of functions as the underlying essential henomenon in shock. Veltzer contrasts the news of Crile with those of Howell who beheves hat the vasomotor centers are not exhausted out that the prominent factor is an inhibition of he centers in the medulia He then shows that orter also disagrees with Crile but that the two hy stologists Porter and Howell disagree also le then advances his own argument, which is ased upon experiments performed primarily in n investigation of peristalsis Meltzer ventures he assumption that the various injuries which re capable of brunging on shock do so by favor ng the development of the inhibitory side of all he functions of the body This predominance f inhibition makes its appearance at first in those unctions which are of less immediate importance life and are therefore less insured by saleuards protecting their equilibrium With in reased injury the inhibition also spreads to the ore vital and better protected functions of the Meltzer is careful to specify ervous system hat he considers inhibition only as a primary fect and that during shock other influences just become secondarily active so that anema sphysia or even fatigue might become opera

tive duning the progress of shock. Such a doctrine as this series well as a physiological hypothesis but to the distillation and searching for light it is not very satisfying. The argument is not definitely settled and therefore one hardy feels satisfied to appropriate inhibition contained in the contract of the problem refers to Meltzer's conception as an abundonment of the problem. The doctrine of acapina viz. that shock is doe.

to a deficiency of carbon dioxide in the blood, was enunciated by Henderson within the past decade and for a time stimulated much work and much criticism. Henderson argues that the traumata that induce shock cause rapid deep breathing (hyperprices) as the result of pain or excitement This rapid deep breathing in its turn causes an undue ventilation of the lungs during which ventilation carbon dioxide is rapidly swept out of the circulation Furthermore, when viscera are exposed in an ordinary laparotomy carbon dio ude is exhaled from their surfaces, thus lessening the quantity of this gas in the blood By blood gas analyses. Henderson claims to have proved this primary contention beyond a doubt Now carbon dioxide is not as it is so commonly itgarded merely a poisonous excretion. It is an important regulatory bormone upon whose presence for instance the activity of so vital a function as respiration depends. Henderson shows that it is possible by excessive artificial respiration alone to induce a state of shock that will be followed by death in a few hours and conversely that a state of shock may be warded off by increasing the so-called dead space of the respiratory tract thus conserving the carbon dioude content of the blood Henderson s explanation of low blood pressure

in shock has been concisely summarized as follows When there is a reduction of carbon dioxide in the blood the walls of the years relax, the pressure in them falls, blood accumulates in them and only a small amount is transmitted to the heart Constriction of the arteries may for a time maintain a fair blood pressure. At last the supply reaching the right auricles becomes so reduced that arterial pressure falls the heart beat becomes quick the output is small and severe shock is established Deficiency of carbon dioude has another remarkable effect When the deviation from normal is con iderable there is a tendency for fluid to exude from the plasma into the tissues The plasma therefore becomes concentrated and the total volume of blood dimini hed Early in the course of shock an

intravenous infusion is remedial later on it fails because the fluid merely escapes into the tissues. Henderson emphasizes and re-emphasizes the phenomenon of venous pressure disequilibrium which leads to a subnormal venous return to the heart the final fall in arterial pressure being dependent upon the consequent reduced output of the heart and in no sense upon an exhaustion of the vasomotor centers If in a state of profound shock stimulation of sensory nerves does not result in a rise of pressure it is because there is so small a quantity of blood circulating and so large a quantity stored in the intra abdominal seins Henderson credits the experimental evidence that claims venous pressure to be regu lated by the carbon dioude content of the blood rather than by the persous system so he sees in the renopressor disequilibrium another bit of evidence in favor of acaptua as the primary cause of shock

What may be said in criticism of this doctrine of acappia? First and foremost that clinically we do not encounter the phenomenon as outlined by Henderson It is rare to see hyperpucea so prolonged as to ventilate the lungs excessively and secondly the modern surgeon does not expose viscera in such fashion as to permit extensive exhalation from them. From the purely sci entific point of view of the physiologist the doc trine of acapmia was actively attacked at the meeting of the American Association of Physiologests two years ago. Howell showed by per fusion experiments that the heart will beat in complete acapma. He used perfusing fluids that contained absolutely no carbon dioxide blood gas analyses to close examination and demonstrated that by Henderson s own figures, some of his animals in shock did not show a reduced blood content of carbon dioxide Erlanger furthermore emphasized the fact that the quantity of carbon dioude in the blood was not even approximately as significant or important as was its tension and yet Henderson practically ignores the question of tension Short attempted to check up Henderson a views by determining the carbon diovide content of the blood in normal individuals and in shocked patients. As a result of his determinations he came to the conclusion that acapnia is not the primary factor in shock In five normal individuals he found that the carbon diovide content of the blood was 46 4 per cent whereas in five shock cases the carbon dioxide content was 46 o per cent Seeing attacked the problem from the following point of view If shock be primarily due to acapuia which in its

turn leads to low blood pressure then it seems reasonable to assume that by supplying the blood directly with an increased quantity of carbon divorde gas we should be able to avert shock or at least to restore blood pressure after the process of shock had started. Soreling found that with ordinary care he could safely introduce carbon divide gas directly from generator into the femoral wen of an animal. He found further more that by this directly increasing the carbon divide of the blood he could not influence the course of shock. The conclusion that acapita does not suffice as a cause of shock therefore seems to be inevitable even despite the large quantity of fast had so carefully collected by Hen

derson over so long a period of time Finally we come to the last of the theories which we have undertaken to review a theory which has been styled by its propounder G W the exhaustion hypothesis This hv pothesis assumes that animals that are especial ly capable of being shocked are those whose self preservation is dependent upon special forms of motor activity that motor activity is excited by adequate stimuli, through nerve tissue directly Whatever may have been the origin of the motor mechanism and its adaptive response on stimula tion there is in each individual at a given time a limited amount of potential energy that motor activity following each adequate stimulus dimin ishes the amount of this potential energy that in any ammal a sufficient number and intensity of the stimuli leads inevitably to exhaustion or death that when the motor activity takes the form of obvious work performed such as running the phenomenon expressing the depletion of the vital force is termed physical exhaustion, and that when the expenditure of the vital force is due to stumuli which lead to no obvious work per formed especially if the stimuli are strong and the expenditure of energy rapid it is designated as

In support of this hypothesis Crile arrays his evidence with the purpose of showing that the phenomena of exhaustion from physical evertion closely resemble shock. That shock may be acute or chronic that in shock every organ of the body exhibits certain evidences of pathologic physiology that recovery from shock often takes a long time that fear and traums have a common phylogenetic origin and are akin and that in the phanic clist there is found a physical basis of shock

Of all this evidence that which concerns demon strable changes in the brain cells is the one that commands most interest. The relationship between exertion and exhaustion and fear and

# ABSTRACTS OF CURRENT LITERATURE

# GENERAL SURGERY

# SURGICAL TECHNIQUE

Coburn R. C.: The importance and Prevention of Respiratory Obstruction During General Americae in the inhalation Methods. Aw J Saw; 1913 xx11 161 By Sur Grace. A Obst.

The author's aim is to draw attention to the prev alence and importance of obstruction in the upper resp ratory tract in anxisthesia by the inhalistion methods. The lower part of this tract is a reservoir of ample size to accommodate ordinary varia tions in demands for pulmonary sentilation while the upper part is chiefly for conduction and only of sufficient size for the passage of necessar) sir cur rents. Therefore the serious embarrassment to gespiration by even the slightest encroachment upon these upper passages by any obstruction, as growths or deformities, swelling from venous congestion excessive mucus, the tongue falling over the larynx etc. \utrous oxide doubles the pulmonary ventila tion and reduces the caliber of the conducting passages, which, continuing makes a victoris circle. more air being demanded and less admitted. A high Trendelenburg pos tion is an added hindrance and a serious load to a heart and other eleculatory organs already a crworked. Restriction of respiration may be gauged by the amount of ox gen used for diminished sentilation means more oxygen. Under ether similar difficulties are met, but here the method by insuffation substantiates its claim of lessened shock and easier breathing. All methods of vaporizing the other remote from the patient and conducting it to a terminal anywhere in the res paratory tract should be called, as certain writers have claimed insuffiation which is promirently distinguished from inhalation by less irritation and congestion in the upper air passages, hence less respiratory re-triction a quieter re-piration, less shock and less somiting. This indicates clearly that inhalation methods are characterized by more or less respiratory restriction, which increases respuratory effort and devitables the patient. The distincti e benefits of insuffiction less obstruction, even administration, and warm vapor should be attained in a proper administration by inhalation. To this end curved tubes have been derised one of metal by Connell and one of rubber by the author the only objection ever made to them has been the possible entrance of liquid ether into the pharyns when used with the open mask but this can be avoided. In conclusion, the anxithetist's success

depends upon observation of details, and an important detail neglected daily in many operator rooms is this prevention of obstruction in the upon air passages. Fasax W Propo

Jackson, C.: Technique of Insertion of Insutracheal Insuffiction Tubes. Surg. Grac. b Old of ave. 607 By Surg. Cyme. & Chr.

From the viewpoint of a largingologist, the interdescribes the technique of the exposure of the largiwith the direct largingocope giving illustrators of the vanous steps in the procedure. He sums up the most important points to be observed as follows

the most important points to be observed as follows.

The patient should be fully under the anathetic by the open method so as to get full relaxation of the muscles of the neck.

2 The patient's head must be in full extension, with the vertex firmly pushed down toward the first of the patient to as to throw the neck upward and bring the occupit down as close as possible beneath the cervical vertebut because the patient 3. No gag should be used, because the patient beautiful the sufficient's avaisanthetized not to need it.

beneath the cervical vertexes:

3 \ 0 age should be used, because the patient
should be sufficiently anysthetized not to need it
and also because side sugging defeats the exposite
of the laryou by jamming down the mandable.

4 The epiglotus must be identified before it is passed 5 The peculum must pass sufficiently far below

the tip of the ep glottis to prevent the latter from shpping

6 Too deep insertion must be a oided, as in that

o 100 urep mention motion to the encode a.d the encode is hird exposing the mouth of the exposing which is bewildening until sufficient education of the eye enables the operator to recognize th landmarks

Babcock W W Spinal Amenthesis in Gynecology Obstetrics and Abdominal Surgery J in M As 19 5, in, 1335. B. Surg Gyner, & Obst.

Babcock discusses the history the phynologoid action his personal expensed or 3 055 cases, and the technique of administration, of spinal anisy hear. The sub-tance chiefly employed was storaine although occurae alypin, and encurse lactate wire also used in a small number of cases tropocame were also used in a small number of cases tropocame were ach used several hundred times.

novocaine were and used several minutes of Under spinal angathenia, the abdominal walls are relaxed, abdominal breathing is largely abolished, the anal spluncters relax, and the gaseous and liquid contents of the large intestines escape the intestinal tube contracts and shows active peristals. The fleus is usually promptly releved by the injection except in certain forms of mechanical obstruction. The stomach in some degree shares in the peristalities attitudiation and nausers is often noticed. Unnary secretion is distinctly diminished as a result of lowered blood pressure. A fall in blood pressure and a slowing of the pulse occurs decreasing gradually to zero at the units, the higher the dorsal nero-noots become involved. The hypotension favors cardiac arrest in certain forms of myocardial desses as well as in thoracotomy and other operations causing sudden changes in intrathorace pressure.

In aneurisms threatened decompensation in valvalar descens in the excessive tession of eclampsis, in labor nephritis and advanced arteroscierosis, in labor nephritis and advanced arteroscierosis the vaso relazation of spinal anesthesis abould be used with circle of the date of the control o

The respiratory movements diminish according to the degree of paraly as of the respiratory muscles if artifici I respiration is necessary it can con veniently be carried out by rhythmical compression of the thorax or by forced artificial respiration Uterine contractions continue under the anarsthetic

but being without the aid of the voluntary expulsive forces they are as a rule mefficient

Spinal næsthesia is of chief value when its application is based on its peculiar physiological action and when it is used in conditions that render the use of other anæsthetics dangerous Babcock has used the anasthetic in 128 cases of operations on 173 cases of operations on the liver the stomach gall bladd r and ducts, and in 321 cases of operations for acute pancreatitis, on the spicen omentum and mesentery In about 80 per cent of these operations on the upper abdomen parcotics have been used in addition to the spinal anasthesia, and in about 10 per cent the act on of the spinal anasthesia has been supplanted by the use of ether It is more difficult to produce spinal anasthesia in the upper abdom nal segments

Spanial anaesthewa has been used in 879 operations on the appendux 1 9 on the instances of hermot omes and operations on the abdominal always and operations on the abdominal always and 254 against operations in vio in the perintened cavity it has its chief value in operations invol ing the lines in the control of the co

and unselected operations irrespective of the degree or duration of any associated peritoritis. He has had little trouble from post-operative tympany and recalls no instance where operation was required for post-operative ileus Spinal anasthesia was used in 107 operations on the kidney and in 54 on the bladder It has a special value in such operations. It also gives very satisfactory relaxation of the perineal muscles and was used in 543 plastic operations and in procedures involving the rectum and genitalia A summary of 303 obstetric operations is given 173 of the cases being reported by Applegate and too cases by Steel in none of which were diminution of uterine contraction post partum hamorrhage or other all effects observed Spinal angesthesia has the advantage in obstetric practice of producing no ill effects on children. In conclusion a description of technique is given

HENRY SCHMITZ

Gelihorn G Local and Spinal Amesthesia in Gynecology and Obstetrics J Am M As 9 3 kd 354 By Surg Gynec & Ob t

Preparation for any ansesthesia should begin at least a day prior to the operation. Aeryous patients should receive bromides, valerian or other sedatives as soon as they enter the hospital Veronal should be given on the evening preceding the operation morphine atropine or morphine scopolamine should be administered hypodermically half an hour before beginning the operation Before the patient enters the operating room his eyes are covered by a mask and his ears filled with cotton saturated with olive For the local infiltration anaesthesia a 125 per cent solution of no ocame supraremn is used.

It is possible to perform a number of minor gypecological operations without danger and discomfort to the patient such as dilatation of the cervix. curettage trachelorrhaphy amputation of the cervix discussion of the os uters, excochleation of cancer and repair of a vesicovaginal fistula Local anæsthesia also is used in incomplete abortions to empty the uterine cavity and in induction of labor by means of bags

For the spinal anarsthesia Gellhorn uses a ccm of a 10 per cent novocaine solution which contains 5 drops of a 1 1000 solution of suprarenin The flux is introduced in the space between the third and fourth lumbar vertebra: The analgesia lasts as a rule from one to one and a half hours Gellhorn used spinal anaesthesia in 63 operations among which were 37 laparotomies and 14 vaginal operations In 2 cases spinal anasthesia was attempt ed but not carried out. The age of the patients ranged from 17 to 64 years. Of these 63 operations analgesia was insufficient in one case of a complete tear with exophthalmia In 3 other cases it was imperfect In 6 of the remaining 47 cases a few whills of ether had to be given the pat ents being either too nervous or the time of operation too extended In 41 cases there was a complete absence of not

Loos O

speech is not improved, the author recommends treatment by prothesis. In the milder cases Von Langenbeck's operation is usually done and with vocal training the results are uniformly good. In many cases normal speech follows the operation. In this operation Geffer's speculum and Trelat's needles can be used to advantage The muscles of the soft palate can be separated at their insertion into the hard palate and the nasal mucous membrane removed according to Berry by means of curved scissors.

In the 71 cases of cleft palate operated by Langen beck s method, 33 resulted in primary umon 30 were operated upon a second time with good results and 7 had partial union One child died of broucho pneumonia In 2 cases Lane s operation was used and followed by primary umon but after one to two years the pulate had atrophied and the cleft had become larger The results were so unsatisfactory that the author has abandoned that method In 14 cases Brophy s method was applied on the same principle as the application of a clamp to hold both parts of the superior maxilla in place. In 4 of these cases death resulted from sepsis, and as the umon of the soft parts took place with extraordinary difficulty even in infants the author has also given up this method of operation

Beckman E H : The Surgical T eatment of Cancer of the Lower Lip with Report ( 199 Cases J Ohla St M A 1913 1, 85 By Surg Gynec & Olist

Cancer of the lower hip is ideally saturated for an early diagnosis. All cancers during the early stages of the disease are localized to small areas and while thus localized can almost always be cured Microscopic examination of tissues by a competent pathologist gives the only absolute proof of a correct diagnosis. The principle underlying the cure of cancer of the lower hp is the same as that my olving the cure of cancer in any other part of the body i e., primary growths together with the glands into which the area of the growth drains must be thoroughly removed

It is advisable in every case to remove the lymphatics on each aide at the primary operation This should include the submaxility salivary glands also since it is impossible to completely remove the lymph nodes and leave the submaxillary salivary glands After removing the glands from o e side they should be examined micro-conically and if involved the dissection should be carried down that side, making a block dissection Both the anterior and posterior deep jugular lymphatics hould be

The percentage of cures following primary radical peration for cancer of the lower lip in the Mayo Clinic is 83 8 Of these cases which were traced a were operated o one year ago 25 between 1 and 2 years, 27 between 2 and 3 years 20 between 3 and 4 years 15 between 4 and 5 years, and 4 more, than 5 years In 18 cases glandulers was demonstrated by microscopic examination at the time of operation.

The results of the cases treated are shown by the following table CANCER OF THE LOWER TO

OF THE DAMES LIP											
Group	2	2	P. Con	2 0	3	,	į,	Į,			
I Chakal dagnou only	1	_	6	,	Ť	1	7	۲			
II Primary reducal operation Clauds involved	76	76	7	7	4		÷	2			
III Late rad al peration	7	•	20	5	4	•					
I' Gha is removed one ade or incomplete	•	,	,	$\Box$	Ť	٦,	٦				
V Local excison only	7	8	3	-	7	6	7	,,,			

os O Th Topography of Injections into the Inferior Alveolar Nerve (Zur Topographe der I jakton ut den Nervus alveolars inferior) Deutsch Monattels f Zahak 10 3 3221, 557 By Zentralb! f d ges Chir u L Grengeb

Loos made injections of fluid gelatine colored with methylene-blue into the inferior alveolar nerve of cadavers, according to various methods, and found that the walls of the area infiltrated the pterygomandibular spaces are formed toward the midbe by the fascia which covers the internal pterygoid muscle laterally by the periosteum of the mandibular sulcus of the ascending ramus and above by the lower border of the belly of the external pterygoid The inner wall goes sharply toward the tongue and contains the nerve which comes out below the inner border of the external pterygoid muscle and from there extends obliquity outward and downward to the mandibular foramen In the outer wall are the vessels The inferior al colar artery branches off not quite z cm below the incisura semilinaris from the internal maxillary artery which runs almost parallel to the border of it, and keeps close to the bone until it reaches the foramen Cons quently the artery and the nerve he at a sharp angle to each other in a more frontal plane and if we like the pterygomandibular space to a pyramid the spex of which is on the foramen the artery forms the posterior lateral side the nerve the inner anterior side and the internal maxillary lies in the base of the triangle To avoid an berration into the muscula ture in making an injection or striking the vessels, t is advisable to feel along the bone. In this way an injection into the internus can certainly be avoided The puncture of a vessel however can be avoided only when the injection is made a short distance fr m the bone

#### NECK

Möller G P The Treatment of Tuberculous Cervical Lymphadenitis Ann Surg Phila 9 3 lvm 433 By Surg Gynet & Obst A comprehens e at dy of the literature of the ten years as well as a analysis of rog cases of tuberculous lymphadenstis studied in association with France are the basis of the author's present conclusions The cervical nodes were affected in of cases the inguinal in 3 the axillary in 3 and both cervical and axillary in one the age of the patients ranging from 12 months to 40 years

While dwelling upon the etiology in these cases he concludes that tuberculous lymphademitis repre sents the local deposits and proliferation of the tuber cle bacillus from some lymph vessel draining a par ticular point of entry ie the faucial tonsil the pharangeal tonsils or adenoids, a diseased middle ear carnous teeth lesions of the buccal and nasal mucous membranes also from cracks and fissures and diseased skin The consumption of tuberculous butter or milk the childish habit of sucking fingers pencils or other objects picked up from the floor the consumption of food on which flies have de posited bacilly and especially hereditary tendencies as well as the occupation of a dwelling formerly occupied by a tuberculous person are all conducive to the spread of the disease

While the author does not wish it understood that he is opposed to the use of hygiene tuberculin or the \ ray he is enthusiastically in favor of radical surgery in these cases basing his views upon the extremely low mortality He quotes a record from the Mayo Clinic where 649 patients have been operated upon without any operative mortality as well as the older records of Jordan Wohlgemuth and Blos, whose results are identical with those of Mayo

In his operative technique Muller is careful to sew the platysma and fascia with plain catgut using worm gut horsehair or the subcuticular stitch for the skin while small pieces of rubber tissue are used for drainage. He pays particular attention to the hygiene of throat wounds. He is painstaking in the matter of nerve relation and preservation He advises care lest the caseous con tents of the nodes be spilled and concludes with the suggestion that perfect hamostasis be secured

The author considers the importance of after While an operation may retreatment and says move with one stroke all the infected tissue yet the patient a resistance to tubercle infection is low and his surroundings are still with him

MATTHEW W PICKARD

### SURGERY OF THE CHEST

### CHEST WALL AND BREAST

Cadenat F M Treatment of External Luxa t one of the Clavici (Traitement des luvations externes de la la cul ) . Îdîk og 31,16 BySrg Gynec&Obst

Cadenat undertakes to explain the pathology and a rational mode of treatment of external dislocations of the clavicle. If the dislocation is incomplete it requires no further treatment than that usually prescribed - a sling It is the complete dislocation which is very difficult to handle satisfactorily as no bloodless method has as yet been devised to hold the dislocated clavicle in place

From numerous experiments on the cadaver and at biopsies it has been shown that complete luxation of the clavicle above the acromion can take place only when the trapezoid and conoid as well as the acromioclavicular ligaments are ruptured

The first operati e attempts at permanent reduction of this dislocation of the clavicle above the acromion aimed at acromioclavicular fixation This fixation can be complete only after ankylosis of the joint is obtained and in an exhaustive chapter devoted to the physiology of this joint the author shows that such a Lylosis must seriously interfere with the function of the shoulder joi t therefore the only operative procedures justifiable are those aiming at reconstruction of the coracoclavicular beaments Three methods ha e been proposed (a) Direct suture (b) syndesmopex; (c) ligame toplast;
The direct sut re of the ruptured trapezoid and

conoid ligaments is so difficult in fresh cases and so

nearly impossible in old cases which are those usually seen in surgical clinics that it is rarely feasible

Syndesmopexy by means of silver wire passed in a figure eight around the coracold process and through the clavicle (as practiced by Delbert) is efficacious as long as the wire holds. But the wire invariably breaks and sooner or later the dislocation recurs This method however is excellent for the treatment of fractures of the external end of the clavicle because union takes place before the wire Rives way

By the use of hving tissue in place of wire the author arrives at the method of repair he advocates namely ligamentoplasty After experimenting with all the available structures in this region the power ful arch of the acromiocoracoid bigament alone satisfied all conditions Its removal from normal attachments weakens the shoulder against upward dislocations, but these are so rare as to be negligible. The posterior bundle of fibers of this ligament is situated near the angle of the coracoid its insertions bordering on those of the trapezoid ligament Its position therefore, is ideal for the following ligamen toplasty

A skin incision 8 cm long s made in the direction of the fibers of the deltoid muscle directly between the acromial and coracoid processes. This incision is carried through the fibers of the deltoid down to the arch of the acromocoracoid ligament The essels which cross the field are cut between two ligatures Next the deltoid is retracted outward the strong posterior band of the acromiocoracoid

ligament is identified and cut far out in order to obtain as much length as possible. A suture is passed through the end of the cut and freed ligament and passed behind and brought well up above the clavicle between the fibers of the trapezius muscle (hyperextension of the head and an exaggeration of the dislocation by bringing the arm forward and inward considerably facilitate this manoruver) The next step is to re-establish the acromioclavicular joint by suturing the torn superficial acromioclavic ular ligament If this is delicient portions of the deitold or trapezius may be utilized If the reduc tion is maintained with difficulty the syndesmopery after Delbert is advised Now the loosened bundle of fibers of the acromiccoracoid byament is attached to the conoid ligament and the clavicle and the operation is completed by a skin suture

In considering the sudications for three different procedures the subhor reterates that subhusations require only a slung and early massage. Complete functions in women who desire good conseller subtations in women who desire good conseller subtation. But wherever perfect functional result of the shoulder is desired I gamentoplasty at the best unched for strength and free mobility. The best unched for strength and free mobility. The transity as soon after the higher as possible. After wards the shoulder is sumpositived as completely speasable until the sutures are removed on the eighth to tenth day.

2.113 Francis.

Betker Tuberculosis of the Tracheo-bronchial Lymph Glands, and its Surgical Treatment (Tracheo-Branchialdrisenuberkulose und ihre chrurpuche Behandlung) Behr z is Chr 19 3 haxvy 311 By Zentralbi i d. ges. Chu u i Grangeb.

The author reports a case in which he successfully removed enlarged tubercular lymph glands at the histocation of the traches to relieve dangerous embarrassment of the respiration. The article discusses fully the clunical picture and the surgical treatment of the condition.

The case lustory is that of an unmarried woman 29 years old with a lamily history of tuberculosis She had suffered for a considerable period from tuberculous of both spices As the disease progressed increasing dyspinota developed, which was so had at times that mediantinal tumor was suspect The X ray showed markedly enlarged lymph glands at the exit of the right bronchus from the traches The removal of these was indicated to relieve the symptoms of sufficiation. This was accomplished by entering the anterior mediastinum by Sauerbruch a and Schumacher's method without opening the pleurs. The ca ty was tamponed The patient stood the operation well and when she was discharged on the 24th day after operation breathing was normal cyanosis and venous star-had dis pressed and swallowing caused no discr X ray showed no shadow at the junction of ac branchus with the traches. The caliber of

bronchus was normal Ame months after operation the nations was still well

This case operated upon by Rehn was the first of its kind. It opens a new field of operative surgery. The complicated topographocal relations are she-tratted by three plates from the exhaustive work of Sulkennikow of the Waldeyer Institute. Special diagnostic methods for tuberculosis of

Special diagnostic methods for inherendosi a fronchial lymph glands are described, undeals tracheo- and bronchacopy. Yazy and heisser sound palpation which is described as follows in esophageal sound with a rubber condon attached in the passed 23-26 on behind the teeth. The cendon is the middle of the teeth of the cendon at the passed 23-26 on behind that a generally located in the middle of the chert and more rarely in the back. The many dangerous complexitions of the disease and the various distressing symptoms to the passed of the same and the various distressing symptoms demand active measures yugocal interestion is unperative when pressure from glands produces sufficient on when it is justified when the glands of the passed of the air passages. It is justified when the glands of the passages it is justified when the glands of the passages in the passages in the passage of the condend when the enlarged glands are evidently the only withen the without the condend when the enlarged glands are evidently the only withen the plants.

Burckhardt II: Infection of the Thoracic Carity (Ober Inf kton der Bruntbild) And f ib. Ch. 10 3 C 204 By Zentraldt f. d. ges. Char u. l. Grangeb

With a very dispersion and a steply decrease and a steply decrease boulders reliaire into the plearad carity of rabbits. In control samish steply locace were injected without a preceding pneumothorax. In only one of thirteen pneumothorax at made of the property of the p

with expansion of the lung by differential pressure. The author does not consider as convincing the experiments of Tegel who obtained pleural infections in tables both in revolute pneumothorax as well as in pneumothorax overcome by positive pressure and explains this result as a consequence of injury to the pleural endothelum 'ccording to his own experience, a partial pneumothorax always remains. Burchhardt does not beheve that the injury to the endothelum is responsible but rather injury to the underlying tense connective tissue membrane. If this is damaged the batteria take hold in the loose connective tissue and multiply rapidly.

### MISCELLANEOUS

Le Wald L. T and Senior II D Teleront genogram of the Anterior Thoracic Wall with the Heart in Situ T Am Ronty Ray Sec Boston 1913 Oct By Sung Gynec & Obst

A televistigenogram and explanatory outlinedrawing reproduced represent the heart and its valvular onlines in their relation to the sintenor thoracte wall. Withough the data obtained from a single case cannot be applied universally the method gives such unequivocal results that it promises to be of value as a means of study.

The subject was a woman who died at the age of 40 of acute pneumonia (without effusion) of the right upper and middle lobes. There was a single small healed tubercle in the left apex, but otherwise the organs were normal.

The body wa injected through the arteries with equal parts of commercial formalin and water The injection was begun with the body in the hor izontal position and fini hed with it in the vertical pout n The body had been stored in the horizon tal position for some months and was frozen. The frozen thorax was removed and then cut by means of a band as accurately in the frontal plane so as to pen both auricles from behind without interfering with the contour of the heart. In the intact ant raw ports n of the thorax the mutral and tra cutil t les were re dily accessible. Mures were bent to ft ac urately the groove corresponding to the it hment I the val es to the heart wall These w r th a pl ed a position from the numele and in the we fithe tricu pid valve fixed by mean of two ut res. The curps f both the ntri ul r al es were i und to be in appeal in the int no of the aorta was reached th ough the t n w wall of the left auncle regio fith plans ar & le wa male acces thle g th rema n ler of the left lung and cut t g th t ry l ngitudirally from the left side Wres wr h ped t fi the aortic and pulmonars he a iple ed so the they were in contact with pe wh h troy ded excellent guides in placing them hit t th pulmonary ring was placed the t edges m int position pontance la

The first telerontgrongraphs were taken with the maternal frozen the remaning portions of the bangs and hier having been removed after freezing. The parts were so rigid however that after the first trails freezing was not repeated as fell to an be said siefly that lack of rigidity is not a source of error To minimize optical distortion the tube was placed as feet from the object which was horizontal with the arterior surface in contact with the plate holder. The light was clied in the skin of the medical into of the thorax at the middle of the longitudinal area occupied by the wires.

Stereoscopical rontgenographs were taken in the usual way and the subject was also radiographed in various positions

The outline was traced from the negative most of the doubtid points in which were electricated by the atteroscope. The left limit of the supernor vena cas and a small portion of the upper right margan of the heart where the latter is confused by the root of the lung could not be determined with certainty. The outline of these regions was there for omitted but subsequent removal of the heart testified to the approximate accuracy of the dotted lines by which these margans were inducted. Several parts identified in the atteroscopic picture such for instance as the inferior vena cas at the ventucles and one of the miral cusps, were omitted to the regist and left ventucles and one of the miral cusps, were omitted for the sake of clearners.

Wenchebach K F: The Radiology of the Chest Arch Ro Ig Ray 1913 xvu 169 H3 Surg Gynec & Obst

Wenchebach contends that in radiology of the cheet the observer should be not only a good runtgenologist but a good clunician as well that he may be able to estimate the pathological process as a whole He claims that Rontgen examination out strips pertu ion not only disclosing change of air content but its form and by stereout to large of air content but its form and by stereout to allowing a precise estimate of the present the strips and support of the process of th

I mphysema of the outer parts of lungs by estagerated pertu in note ofter conceals deep changes which routgenography existly discloses. In the discovery of small centrally placed infurstions in pneumonia in the scattered foot of bronchail preum nis in tuberculo preum ric proc uses (in areas of already impas red resonance) tubercular cast tes encapsulated pleeral existed; pleunitic adhes nis ard meta tatic tum ric information is often gared which can't be otherwise acquired. The theory of pneumothoras has und reone a complete change and feet red level for the refresheld in the red of the first plear the red of the red for the inferted of further long its frequency and general beha nor were first d ter need by the in the 1 which has also may book leaves.

the control of artificial pneumothorax in its therapeutic use Stereoscopy can render invaluable services in the

recognition of normal and pathological conditions in

the thorax it offers extended opportunities for further advances in the knowledge of these deeases and their ultimate control

DAVID R BOSTS

# SURGERY OF THE ABDOMEN

### ABDOMINAL WALL AND PERITONEUM

Balabridge, W S: Technique of the Intra Abdominal Administration of Oxygen Am J S g 1913 Ezvi 364 By Surg & ec & Obst

In abdominal surgery and gynecology two meth ods have been used heretofore

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By continuous current described by Thirlar in 1800 and used by Javaux Ramond, and others Ouantities up to 600 liters in 36 hours have been used in this way 2 By injection into the abdominal cavity with

immediate closure of the wound

Bainbridge has employed the latter method since 1903 in more than 125 laparotomies

He deductions from animal experiments were z Oxygen is completely absorbed in the abdom

inal cavity 2 It is a slight respiratory stimulant

It is a slight cardiac stimulant

Ilas but little effect on blood pressure when gas pressure is moderate

Tends to revise animal quickly from deep

6 Hastens recovery of animal after discontinu ance of the anasthetic

7 A pressure of more than 250 ccm of water

causes collapse 8 Tends to prevent the formation of adhesions o Changes dark blood to scarlet in cases of

ADOXEDIA 10 Stimulates intestinal peristalsis

11 It is not an irritant to the pentoneum or

**Vascera** The purposes for which oxygen are administered intra abdominally are

To lessen shock names and vom ing
 To overcome negative intra-abdominal pres

sure after the removal of large tumors To prevent the formation of adhesions

4 For its effect upon certain types of tubercular peritonitis

5 F its effect upon pus producing organisms and the r torins

The gas employed by Bambridge was oxygen 94-97 per cent nitrogen 2.37-4 5 per cent a trace of carbon dioxide no chlorine no mirous oxide

It was used at a temperature of 90-100° F The gas : led through a wash bottle containing hot water into the tubing of a rubber ice co I submerged To the long t be leading m a basiz of hot wate from this coil a terile rubb r tube is connected by a glass connecting tube

The sterile tube is introduced into the abdomen through the laparotomy wound. The pentoneum is closed up to the tube with a running stitch and one interrupted suture is placed in the peritoneum above and below the tube and tied. A peritoneal pursestring is placed about the tube and the ends left united. The muscles are closed by whatever sutures are preferred the aponeurous by interrupted sutures. and a long suture placed in the aponeurous ball say around the tube the ends of which are left unto The remaining layers of the abilominal wall are closed

about the tube When the desired amount of gas has been introduced the perstoneal purse string is tied as the tube is withdrawn slowly. The aponeurotic suture is now tied. The Luots i both he buried.

Intracellular emphysema which sometimes occurs,

is a discomfort to the patient

Experience continues to verify the earlier indications. The amount is determined in tumors and ascrees, by measuring the girth of the abdomen before operation and using enough oxygen to bring the girth after operation up to or just under the previous measurement. In shock and hamorrhage is er duliness: just obliterated provided the hier is movable DOLALD GORDON

ther M Acut Progressive Peritonitis Review of 160 Operated Ca es (Uber at 160 fort-chrestend Peritoniu Em Ruckbick auf 60 operacite Falle) Bit kin Ch 9 3 hany Fischer M Falle) Be blin Ch By Zentralbl I d ges Chre

Fisher reports 160 cases [ acute diffuse progressive pent miss, treated surgically. In 107 of these the appendix was the point of origin There was a mort buy in these of 11 9 per cent in early cases and 54 o per cent in late cases, 48 hours being the time limit. The prognosis became worse as age ad suced F llowing perf rated gastric ulcer there were 5 cases with 4 deaths There were 2 cases of perforated duoden I ulcer with a deaths All except o e case were operated upon 4 hours or more after perforatio The perforation was tured in all cases and drainage inserted. There was ne case of jejunostomy Ol cases following gunchet wound of the abdomen ne died The peration was performed after 24 bours Six operations follo ed

ga grene of the gut du to trangulated herniss 'ill of these patient died the hernias having been incarrerated 2 to 5 days The remainder occurred in th follows g con ution a 1 with results as indicat ed tw perfor ted typho ulcers with deaths, after perforatio one perated upon nd 4 t

stab wound operated after 12 hours recovered one stab wound operated after 6 hours recovered two of perforation of a strangulated loop of gut one inflammatory the other a Meckel's diverticulum both died one sloughing invagination of the ileum recovered after resection three post-partum died five prosalping (4 unilateral) 3 died three suppurative parametritic conditions, one died, four perforations of distended gall bladders 3 died one perforation of paranephritic abscess, died one diplococcic pentonitis died In cases of fluid exudate the abdomen was flushed with a salt solution

After closing a number of cases of perforated perstonitis without drainage and having to do a secondary operation for abscess formation the author drained all such cases freely especially through the Douglas pouch In cases of serous discharge the drain was removed in 24 hours, in pus cases it was allowed to remain longer or replaced by a smaller one During and after operation intravenous injection of digalen was used with good results In the after treatment Fowler's position and in suitable cases kinster's were used addition to subcutaneous injection of normal salt solution continuous rectal infusions were given In severe cases, and during operation intravenous injections of supraremin were employed Artificial heat was always used. For paralytic conditions of the gut physostigmin was given subcutaneously In 7 cases the bowel was relieved by one of more nunctures After the second day exercises were employed for acration of the lungs - deep respiration loud talking inflation of an air pillow The prognosis depends largely upon the type of disease. BLEZINGER

# Weil S. Rare Forms of Hernia (Uber seltenere Hernsen) Ztschr f drzil Foribild, 913 417 By Zentrajbl f d ges Chi u i Grenzgeb

Short descriptions are given of hermas in unusual locations (oval openings in the ensiform process of the sternum internal supravencal hern a inter parietal bernia lateral abdominal hernia obturator hernia Treitz s hernia, and omental hernia) unusual contents of the hermal sac (bladder sliding herma of the colon herms of the intestinal wall and true Littré s herma) and pathological changes in the hernial sac (carcinoma metastases tuberculosis, adhesious) and of the hermal contents (torsion of the omentum and spermatic cord volvulus in a large umbilical berma ileus and apparent incarceration peritonitis and appendicitis in the hermal sac and incarceration of the appendix) In conclusion several cases of severe injury from attempts of taxes are reported REINWARDT

Schley W S. Rectus Transplantation for Deficiency of Internal Oblique Muscle in Certain Cases of Inguinal Hernia A n S f Phila 913 lvs 473 By Surg Gynec & Obst

Schley discusses the indications for and methods of rectus transplantation in the radical cure of inguinal

bernia. The operation is indicated in markedly deficient internal oblique muscle and weak transversalis fascia. It is contra indicated in indirect inguinal herais with a good internal oblique muscle and often in direct hermas Schley describes a meth od of rectus transplantation that he has followed in twelve cases of indirect hernia with deficient internal oblique and reports apparently perfect repair in all after periods ranging from four months to two years since operation ROBERT H IVY

Hull A.J. Recurrence of Induinal Herma A s Surg Ph la 1913 Ivu 479
By Surg Gynec & Obst.

Recurrence of inguinal herma may take place in the following classes of cases

r Failure to ligate or suture the sec sufficiently high up 2 Cases operated upon by ligature of neck of sac

and suture of conjuged tendon over cord to Pou part s hgament Recurrence sometimes takes place in cases

operated on by ligature of neck of sac and suture of conjumed tendon beneath cord to Pounart a ligament

4 Ligature of sac alone s Ligature of neck of sac and displacing the

heatured neck by buried sutures 6 Cases of herma treated by trusses during child bood From a consideration of the modes of recurrence

the following points appear to be necessary in the operation for herma (c) Transposition of the neck of the sac (b) constriction of the internal ring (c) strengthening the weak area of the posterior wall of the inguinal canal to the inner side of the internal ring In the typical Bassini operation this is done by suturing the conjoined tendon to Poupart s liga-

ment (d) obtaining adequate pressure along the internal ring (e) strengthening the weak area to the outer side of the internal ring. In the operation described by Hull silkworm (fishing) gut is used for the deep stitches which occasions no after trouble ROBERT H IVY

# Miller R T: Enterogenous Mesenteric Cysts Bull Johns Hopk as H p q 3 xx1 3 6 By S rg Gymec & Obst

Miller in this article reports in detail a very inter esting case of intestinal obstruction due to a con genital enterogenous mesenteric cyst causing vol vulus He considers a detailed presentation of a single case of value in view of the fact that there is such a wide difference of opin on as to the genesis of the cysts that a positive diagnosis has probably never been made before the operation or autonsy and that their surgical significance is almost univer sally ignored

His case was that of a female four days old in which operation and resection were followed by The symptoms were those of complete intestinal obstruction but the real cause of the obstruction was not surmined At the operation there was seen upon opening the peritoreum both there was seen upon opening the peritoreum both there was seen upon opening the peritoreum both distert and collapsed ry smott loops of small bowel. Durited evidence was the seen of the peritoreum below the level of the uniform the peritoreum was which proved to be an internace of the peritoreum and was also the peritoreum and there as asstronces was done Death resulted five bours after completion of the operation.

The specimen removed consisted of an intramesentenc cyst whose wall was, in part, directly continuous with that of the left must be able to be a superior of the board. It is structure recombined closely and adjound portion of the board. It is structure and adjound portion of the board. It is structure and arrangement pointed directly to an enterogenous origin by a process of sequestration during embryonic bife. by a process of sequestration during embryonic bife.

Miller reviews the literature and presents an excellent working classification of mesentenic cysis

of embryonic origin namely

z Cysts of intestinal origin

(a) By sequestration from the bowel occurring duting development.

during development.

(b) From Meckel s diverticulum when it senses from the concave side of the bowel for ac-

quires an intramesenteric position)

2 Dermoid cysts

3 Cysts arising from retroperitoneal organs viz urogenital organs (serminal epithelium ovary wolfdian body Millierian duct) George E. Brusy

#### GASTRO-INTESTINAL TRACT

Ramsbottom A and Barclay, A. L.: The Diag nosis of a Hair Ball in the Stomach. And Rintz Ray 1913 avin 167 By Surg Gree. & Obst

The authors report a case first thought to be splenic ancess. Later the mobility of the timor mistaken for spleni det of rindges ezamuation. A bussuit med outland both leaver and graster curstains with the tours thorough between. By palpation under the subgenocope the timor us forced into movable without carried the description of the pa-filled fundes carried chough bussuit to cast a dark abadow. Daspnos a was so complete that the sare and shape of the hair bell seer predicted.

Chaple H D: Radiographic Studies of the Gastro-Intestinal Treet in Infants J Am H An 1913 in 1419 By Surg Gynec & Obst

The first two cases studied by Chapla were young infants of severa and eight months. In these he determined the length of time that the bantum remaned in the intestinal text. In the first case gas began to appear in the colon in three hours and ten munities and was evipelled into the rectum in seven hours. The second case corresponded closely to the first

The next study was a series of ten cases in each o

which are events of heature sulphate amounting is from 4 to 50 ounces was given X my puture showed the extreme various in the medity of different portions of the slower of the core the like occal valve was patient and machine no this was probably true. After pain medier not the barum passed into the execute in a way for seconds.

After a study of the V ray pictures, Chaple a certain that it is not possible to pass a colonic tube beyond the upper portion of the agreed

Morse J L.: Use of the Röntgen Ray in the Diagnosis of Obscure Abdominal Conditions in Infancy and Childhood J Am M A 1 1911 in, 1122 By Surg Gince & Obs.

This study consisted in an attempt to diagnostic obscure conductions in linkary and childhood before the obscure to conduction in linkary and childhood the property of the pr

Morse also gives an instance where the cause of constitution was determined by the \may In this case the cause was singuishness in the colon. He then shows a case where surcome of the left kidney could be located by the appearance of a mass between the spanal column and the colon filled with

Sendder C. L.: Certain Observations Upon Two Hundred Cases of Gastele Diseas Boston M & S J 19 5 class, 635 By Surg Gynec. & Obst.

The author dwells upon the very low mortality that attends operations for gastric disease. He conaiders this as very promising for the future, in that more and more cases of gastric disturbance will be

subjected to operation
In the etcology of gastric disease a remarkable
but scens to be played by syphian. Syphian of the
but scens as to be played by syphian is syphian to the
but scens as a certainy one and may be a german,
as ulcer or adhesions extending from the stounds
as neighboring organs. In all cases with symptom
of chronic calor the studier recommends a Waster
mann test and if the test be positive the studier
in the studies of the studies that
Is the diagnoss of chronic ulter the author the
beca assented most by a carefully chicule their hotory of

the onet and course of the symptoms Definite pan in the region of the stomach has been the most common symptom Hunger pain seems to be more diagnostic of gastric than of duodenal ulcer Exami nation of the stomach contents for HC blood and mothity should be repeatedly performed In the absence of other causes for humorrhage blood in the stools points very strongly to ulcer or cancer

The X ray has been of great use in the diagnosis of gastne disease. The author believes that every suspected case should be subjected to a fluoroscopic examination and repeated radiographs should be

taken

Cancer of the atomach comes to the surgeon in the majority of cases in the incurable stage. Whenever it is possible however and the condition of the patient will warrant it an extrasive attempt should be made to remove all of the cancerous tissue. In analy cases where there is a recurrence the symptoms are markedly ameliorated by an extrasive operation and the life of the patient is consideral IT. Series

Janeway H II Gastroscopy J Am M Ass 1913 hn 1939 By Surg Gynec & Obst

In considering carcinoma of the stomach only one question presents itself. Is gastroscopy an efficient and practical method of viewnag the interior of the stomach? The author presents an instrument that is efficient in that it permits details of the gastric mucoss to be seen with clearness and practical in that it does not involve too much suffering or inconvenience on the part of the patient. The success of this gastroscope depends upon the lamp and lens system the former being as large as the caliber of the instrument and large enough to slummate the whole of the distended etomach.

Rontgenoscopy is valuable in conditions around the pylorius where the largest number of ulcers and cancers originate. The gastroscope furnishes information regarding the vertical portion which includes the region occupied by a large number of pathological conditions particularly those which are difficult to recognize chinically. Thus gastroscopy supplements other objective methods of eramina-

tion

Some discomfort is generally experienced and the apprehension felt makes it desirable that the reasonation be conducted under general anesthesia Intritracheal insuffiction make anesthesia during gastroscopy possible and by the use of introus critical and oxygen the last objection to the routine use of this instrument in stomach conditions is removed when it may mean so much to the patient. The procedure is devoid of danger as the operator a eye is always on the datal end of the instrument at its near allowed to progress unless the folds of muccous membrane full away in front of it.

If gastroscopy and ronigenoscopy are made a routine measure in cases in which carcinoms is possible in a large proportion of cases exercionmata will be found in the author a opinion in an early stage when it is possible to do something for them.

E K ABMERGO,

Hertz A F The Cause and Treatment of Certain Uniavorable After Effects of Gastro enterostomy A s Surg Phila 913 lvs 466.

Hertz has been consulted by a considerable num ber of patients upon whom gastro enterostomies had been performed most commonly for duodenal ulcer They complained of symptoms which he divides into two groups. The first group is occa sioned by too rapid dramage of the stomach rec ognized by a very unpleasant sense of fullness occur ring during each meal localized slightly lower than the position where the pain or discomfort was felt before the operation This is accompanied in many cases by slight diarrhora after each meal In all patients suffering from this group of symptoms it has been found by the X rays that the stomach was small and hypertonic, and that passage of food out of at through the operation stoma was extremely rapid In all cases little or nothing passed through the pylorus The sense of fullness in these cases is due to a distention of the ferunum from the rapid pas sage of food from the stomach Treatment consists in having the patient he down for half an hour or an bour immediately after each meal as the stomach empties itself much less rapidly when this posture is assumed Some preparation of pancreatic ferments to compensate for the deficiency of the normal secretions and small doses of belladonna to relay the involuntary muscle fibers of the intestines, should be given half an hour before meals. The author suggests that the condition might be prevented by making a somewhat smaller stoma when the gastroenterostomy is performed

The second group of cases are those of extreme didatation of the stomach in which the situation of the gastro enterostomy opening is above the upper level of the gastro contents readering passage of the stomach contents through the stomach mechanical impossibility while the patient is in a vertical position. In such cases an effective gastro enter stomay must have the stomac so situated that it re mains in the most dependent part of the stomach even when the vertical position is assumed

ROBERT H IVY

Leriche R. How is it Possible to Exclude the Pylorus and the Duodenum (Comment fautal réaber l'exclusion du pylore et du docidenum)? L'ouchir 9 3 x 2? By Journal de Chirurgie,

This article is a vigorous protest against Paris vections method of excluding by ligature. The author beheves that the only way to obtain a complete final and sure exclusion of the stomach or intestine is to sever the bowl and close each end separately as in the old method of Doon and won Euceberty. This operation is neither loop nor complicated especially sit can be performed in the region of the paylorus. By it alone can interruption of the ratio metation in the same production of the ratio metation in the same production.

of the gastro intestinal circulation be assured If a legature be used even if it be sewed in it gradually cuts through the wall and passes out through the intestine and the closure or stricture is not permanent This fact was established by the work of Ohya, Paganelli and Tappenner the findings of Randisi to the contrary notwithstanding

Lenche reports two cases. The first was that of a man thirty-servey years of age with synaptons of duodenal ulcer. A posterior gastro enteraction was performed and the pylorius was teed off with No. 2 catgut. The immediate result was excellent the pan disappeared and the stomach emptined itself immediately. Two months later however all of the symptoms returned and a molograph showed the symptoms returned and a molograph for the continuous control of the control of the continuous control of the continuous control of the control

The second case was that of a woman sury three years of age. A large creatness labor of the lesser curvature involved the paucress. Resection was impossible. The stometh was ingued sear the alternad as a sation gaintre-introducy with a button performed on the upper segment and a jejunostomy between the loops. The patient improved but radioscopy showed that the artificial blockstom was not maintained and the stomach emptical itself.

through the pylorus.

According to the author the only indication for Parlayecchio s operation is irremovable ulcer of the middle of the stomach

On LENGBURGH

Monrad Personal Experience with Acute Inwagination of the Bowel in Children (Person locks Erichnuppen ther at ute Damanyaquaton bel Amdern) Kong Verhandt. d. Nord har Fores Kopenis 1913 By Zentralbl. f d ges Chur u. i Grenzgeb

The author strongly advocates non-operative treatment. He speaks first of the Hurchappung Wichmann method A narcotic si given to facilitate in apricano of an enema. This is followed by massage of the invapanation. This narched has the duadvintage that frequently after giving the cenna the tumor disappears so that give the giving the cenna the tumor disappears and only in a happears of the tumor disappears and only in a happears of the reason Mournal reconnected in own method, which consists of steady traction at the site of invagnation directly through the abdominal wall. The bowel is finished out well from below after employing the method.

The technique as a failors. The patient is chierformed in order to paid the times accurately if the invagancies of the control of the control of the control of the control of the theory of the control of the control of the portion is search with then plant for a few insuites, then it a grasped in the left hand while the upper portion is search with the right. The disdayagnation usually occurs quite ready! If this is not the case repeated attempts may be made at intervision it; minutes After thus procedure a high comman as given which in itself often dissayagnates the grid in otherwise unsuccessful case in the control of the partition of the control of the control of the partition of the control of the control of the partition of the control of the control of the centrel alternately on both ends of the tumor. If this method does not prove satisfactor; many green cases, operation becomes increasing any of one. The creatiles were as follower Of 51 cases 45 were instead by non-constant of the control of which of the control of

one islaire

It is often difficult to determine whether the reduction has been successful and to tell whether a sight that clausing is due to inflictation of the gat erto sight that clausing is due to inflictation of the gat erto spatial reduction. I success a thin of freely spatial reduction is decreased in the first first of the continuation of the control of color and the responserance of a time are series again. Control inductations are severe meteories and pentionities. Henceful and double invigations are seriously these cases are hard to differentiate. The duration of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play and the condition does not play a very instantion of the condition does not play and the condition does not play a very instantion of the condition does not play a very instantion of the condition does not play and the conditi

portant part as regards the method employed.

Injury directly due to attempt as treducton is
ner The strupung of the serous as undoubtedly
less than in laparotomy and is not so harmin.

It is difficult to determine whether in unsuccessful
cases the most isoverable time for operation has
passed. This can only be decaded by companion of
the results of a number of non-operated cases with
those operated upon at once The author feel
accountinged after companing statistics in using the

non-operative method with lumintons as medicale Inhe descession, Lorrance advocates theoperative procedure with a mortality of at per cent Only a cases were treated by manipulation, and these all had to be operated upon later. The needed treatment for the following reasons. I Manipulation soften unsaccessful and requires special still miss often unsaccessful and requires special still miss often unsaccessful and requires special still miss of the unsaccessful and requires at the second is complete. It is addictable to tell whether reduction is complete a The unjuries to the serous afterwards of the unsaccessful and requires settings. 4. The cases of the unregarded country desponses of the operative procedure is controlled by sight, while the other as a hind method.

TECETATING intends to attempt nonoperative treatment more than he has done in the past, although he is not very strongly inclined toward at The good results of Monrad seem to him to

depend in part upon the selection of untable cust.
ROVERC thinks the statustics of the good results and low mortably in non operated custs demand consideration Nevertheless he operate on all earliers at reflection faith. He has held good results by following this principle with a deaths:

Eschen injects oil (ol. rapse) to lubricate the ordenators inner argment of the invagnation. He allows as much oil as pos lible to flow into the bowel

from a height of 1 m. The oil is massaged through the descending colon and then the tumor is massaged. Sometimes reduction takes place with an audible snap. The method has given good results in Eschen a cases. It is usually carried out without ASCE KOCK. anzathesia.

Coiling C. N: Two Cases of Obstruction of the Bowels from Unusual Causes Surg Gyset & Obst 913 xvu 5 2 By Surg Gynet & Obst

The interest in these two cases hes in the diagnostic problems involved In the first case the patient had had a right inguinal hernia for ten years. It became strangulated, but after a few attempts it was reduced. The vomiting and pain were not relieved, and there was tenderness on pressure over the right lower abdomen, so a diagnosis of appendictils was made. An operation revealed a fibrous band across the internal inguinal ring. The loop of bowel came out on one side of the band and was pushed back on the other side leaving it hanging over and obstructed by the narrow fibrous band

In the second case the patient was 50 years old and she had not menstruated for two months She was taken with vomiting and pain in the abdomen She had an oblong tumor in the left lower abdomen and had passed some bloody mucus from the rectum. A rectal examination was negative. A diagnosis was made of an extra-uterine pregnancy but opera tion revealed an intussusception caused by a hooma attached by a pedicle to the mucous membrane of the

Kerr H H: Intestinal Anastomosis; with a Report on the Aseptic Basting Stitch Method Surg Gynec & Obst 1913 xv1 490
By Surg Gynec & Obst.

Kerr presents his expenence with this method since the report of the experimental work by himself and Parker in 1908 It may be defined as an easy and rapid method of suturing, applicable to any form of intestinal anastomosis whether circular lateral or end to-side whereby the immediate formation of a patent stoma may be accomplished without operative opening of the intestinal lumen and with out the introduction into it of any instrument or bgature

Two pairs of crushing clamps are placed in apposition across the bowel at an angle of 45 degrees to its axis on either aide of the portion to be resected. The bowel is divided by the cautery or knife between each pair of clamps. The proximal and distal stumps closed by the clamps are now ready to be joined The basting stitch is a Cushing continuous statch of Pagenstecher thread placed across each bowel end with the loops between the stitches passing over the clamps. The first and last stitches at the mesenteric and free borders run parallel to the axis of the bowel the intervening ones run parallel to the clamp and across the axis of the bowel the blades of the clamp are separated and with drawn from under the loops of the basting thread

and when the latter is drawn taut, the edges of the incision are automatically inverted and held firmly pressed together in a straight line without any separation of the lips of the opening having occurred. The two ends so closed are held in apposition suspended on their tight basting threads, and the anastomosis is made with great case and rapidity according to the author Twenty-six cases of aseptic anastomosis, including pylorectomy and gastro-enterestomy are appended in none of which was there leakage or stenosis. The author claims that the basting-stitch method of intestinal anastomosis is rapid simple safe and aseptic.

Codman E A: Observations on a Series of Ninety Eight Consecutive Operations for Chronic Appendicitis Bosion M & S J 19 3 cixux 495 By Surg Gypec. & Obst.

Before starting this series the author wrote down ten distinct objects of the investigation. Each case operated upon had been previously diagnosed as chronic appendicuts and this diagnosis had been agreed to by the author

Of the 98 cases only 61 appendices showed at operation evidences of ever having been inflamed And of these 50 should not really be included because they had definite histories of classical acute attacks. Therefore he scouts the idea of anyone being able to make a diagnosis of chronic appendicitis with any reasonable degree of certainty in cases which have not had a previous acute attack. This statement is further substantiated by the fact that he and his colleagues operated on an equal number of abdominal cases under other diagnoses than chronic appendicatls and yet a chronic appendix was the only abdominal lesion they could find

Another consecutive series of 100 laparotomies which were done for other lesions (chronic appendica appendices He considers the X ray of considerable help in the diagnosis of chronic appendicitis, especially in differentiating the condition which he calls pseudo appendicitis or ileo-cecal anomalies.

Anoci association was used on 25 cases and is considered by the author a step toward the evolution of a perfect technique When this becomes so sure that no deaths no pain no vomiting no herma, no complications of any kind occur then the arguments for routine appendectomy will be justi

In conclusion he hopes for a revision of the subject of chronic appendicities and a new nomenclature and suggests the following

z Terminal obliteration a harmless type 2 Strictured or vicious appendix.

3 Kinked or potential appendix.
4 Chromic appendices those in which the lumen is patent but where the X ray shows retained hismuth hours or days after the rest of the meal has passed They include the catarrhal the lymphoid and the minor kinks and twists, but their lumen is still free so that when their internal tension rises the

discharge can escape into the execum and only cause a slight attack of indigestion R. W FRENCH.

White G R.: Contracture of the Pages Parvus Muscle Simulating Appendicitis Ass Surg Phila tott lyn 481

White has found seven cases simulating appendi citis, with rigidity of the right abdominal muscles localized pain excessive tenderness and palpable tumor due to a contracted psoas parvus tene

He strongly urges a search for the pseas parvus muscle when the abdomen is opened and a normal appendix found A division of this tendinous band gives relief He prefers the retropentoneal route because the retracted perstoneum keeps the intestines out of the way but the transperstoneal route can also be resorted to easily

The thac artery is well to the inner side and the nerves deeper and to the outer side of the tendon so there is little danger in the operation. In all of his series of seven cases pain tenderness and tumor were present. In two the pain came suddenly and was referred to the leg Fever and digestive disturbances were absent

Chronic and tonic spasms of the ilionsoas have been reported in neurasthenics. In the author's series only one could be called neurasthenic. The poors parvus is a rudimentary muscle attached above to the last dorsal and first lumbar vertebræ and below to the thopectineal line of the pelvis. In all of the seven cases reported the poors purvus was repre-sented by a tense fibrous band along the inner border of the psoas magnus and receiving additional bands from each neighboring vertebra

In all of his cases immediate relief followed the division of this tendinous band. LEWIS B CRAWFORD

George A. W. and Gerber I: The Value of the Röntgen Method in the Study of Chronic Appendicitis and Inflammatory Cond tons, Both Confeminal and Acquired About the Ca-cum and Terminal Heum Serg Grace 50 Oct. 1013 79 418 By Sung Grace. A Obst.

This is a discussion from the rontgen point of view of a series of cases, all of which had symptoms of either stomach trouble or chronic constipation The rontgen examination showed the cause to be definite surgical disease in the right lower quadrant and later operations confirmed the diagnoses. The

cases are in five general groups

1 Chronic Appendicitis This is shown first by ileal stasts which must consist of stasts in the ileum for 24 hours or longer More important than this is the actual demonstration of bismuth within the lumen of the kinked and adherent appendix. The authors claim to have demonstrated the appendix in about seven cases out of every ten examined and to be able usually to differentiate normal from

pathological appendices

2 Lane's Ki k. Here ileal stasis is also found, but more important is the demonstration of the fixed and distended terminal loop of ileum. Fig oroscopic manipulation plays a very important part in the diagnosis of this condition.

3 Jackson : Membrane or Membranous Par column. This is usually accompanied by ileal stars and some obstruction in the cecum and asympton colon The real diagnostic feature however is the demonstration of adhesions by manipulation under the fluoroscope or what is even more important by the presence on plates of a peculiar mechanism of filling which has been observed only with these pericultic adhesions. As the ileal contents empty into the carcum and ascending colon a pull a gradually everted upon the adhesions, and the proximal transverse colon is pulled down toward the ascending colon finally giving the double hard shotgun 'effect The presence of this filling med The presence of this filling meck anism serves to differentiate Jackson's membrane from sample colonic dilatation (typhlatony)

4 Adherions Many of the cases were found to have various adhesions of the intestinal parts as the result of pelvic inflammation or old uker appendicitis, gall stones etc. In these cases obstruc tuon and ileal stasss are not as valuable diagnostic points as the actual demonstration by manipulation of the effect of the adhesions

5. Cacum Mobile This can be demonstrated readily by the ro tgen ray and incidentally the diagnosis of left sided appendicitis can be confirmed

Quimby A. J Differential Diagnosis of the Appendix, by Ald of Röntgen Ray N 7 N J q 3 zevn 697 By Surg Gynec & Obst.

The author bases his paper on the results of rat rontgenological examinations both fluoroscopical and radiographical of the lower right abdomen. muth subcarbonate or barrum sulphate (C. P) meal is given and the patient is observed at intervals

for at least 4 to 6 days

He classifies appendices according to function, position and shape as follows (r) Functionating or non functionating (2) fixed or movable (3) ascend ing, descending or transverse (4) straight kinked

curved looped or clubbed

A functionating appendix is one capable of receiving and discharging faces. The author expects the appendix to be filled with bismuth any time after 6 hours, but often he observes that this does not occur until after 24 to 30 hours Since the colonic penstaltic way originates in the appendix t can be assumed that the discharge of its contents is governed by the same rules controlling the function of the large bowel If the bismuth is not discharged within 36 or 48 hours it can be assumed that the function is disturbed and this class furmishes the non functionating type which the author always considers pathological. In some cases bls-muth has been found in the appendix several weeks after ingestion of the bismuth meal

Palpation during fluoroscopy enables one to determine whether the appendix is fixed or movable. The uthor suggests the necessity of first locating

The hand should be passed downward the czcum until the cucum shos upward under the finger this enabling the examiner to study the attachment of

the appendix

As a rule the ascending type is adherent and the descending free and normal Abnormal appendices are frequently associated with abnormalities of the carcum and colon as adhesions mesentene bands, and angulations involving colon conditions which favor stasis

The determination of the shape of the appendix oures a knowledge of the relative values of the diffusion of the shadow cast by the various segments. Stereoscopic studies are suggested as of value in determining the exact relations to surrounding structures It must be kept in mind that malposi tion of the cecum produces unusual shaped appendices The author's conclusions are as follows r When there is chronic constipation due to

delayed or inhibited peristalsis the appendix is usually diseased 2 The \ray is essential in the differential

diagnosis of the appendix
3 When a pathological condition of the appendix

is suspected and there are few symptoms an \ ray examination is essential. 4 When the appendix is tied up in a mass of adhesions an accurate finding of the appendix en

ables the operator to rapidly locate it on operation. Accurate determination of conditions typify

ing appendicitis should be made before operation 6 When there are obscure symptoms in the abdomen which cannot be traced to a definite organ an I ray examination of the appendix may show that it is adherent to some distant organ
Will A EVANS

Fellon M F An Anatomical and Surg Study of Pericascal Membranes B / M 6 An Anatomical and Sure cal

Fallon discusses Jackson's membrane caccum mobile the physiology of the first half of the large intestine with treatment of pathological stasis therein and the relation of pericecal membranes to appendicitis especially of the family type. Numer ous authors are quoted and a list of references is

appended
Fallon believes with Blake that Jackson's mem brane is a congenital normal constant structure He holds that it is not a membranous pericolitis and that it is not disabling to the cecum and ascending colon He does not doubt that there is a definite pericolitis but t has no relation whatever to the so-called Jackson's membrane Virchow was the first to go e a clear description of this pericolitis and he ascribed t chiefly to fecal stasis The chrome type of th affection is illustrated by the following case In a married woman 42 years of age with a history of const pation and right abdominal rain a diagnosis of high appendix was made but operation showed only the right flexure of the colon and its omentum adherent to the antenor panetal pento

neum over an area the size of the palm of an adult s hand Adhesions were freed. The wall of the colon. was much thickened and its serosa was injected and uneven. A piece of the affected tissue was excised and reported by the pathologist as chronic inflamma Two months after leaving the hospital the nationt was still free from her former symptoms

The crecum mobile of Wilms is not in itself pathological. It is due to the presence of an ascending mesocolon a less frequent form of attachment of the ascending colon Treves found it in 26 per cent of his cases and Fallon has found it in 24 per cent of one hundred subjects whom he has examined Stasis in the first half of the large intestine is to a certain extent physiological. When it becomes nathological the causes are frequently to be found in faulty habits and hygienic and dietary measures

are as a rule indicated

In an investigation of the relation of pericacal membranes to appendicitis Albrecht found in the cadavers of 15 per cent of 500 children under six years of age kinks and twists of the appendix due to these membranes sufficient to give opportunity for interference with drainage and the possibility of future appendicatis. He says there can be no doubt that such congenital anomalies are hereditary, and consequently may run in families. Fallon be this to be true and submits the following as evidence An investigation of 200 patients operated abon for appendicitis showed that twenty four were members of families in which one or more members had been operated upon for appendicitis. In one family the grandmother had died of appendicates an uncle had had peritonitis resulting from appendicitls five brothers and one sister of the patient had been operated upon for appendicitis between the ages of twenty and thirty and the only remaining member of the family a sister was known to have chronic appendicitis TORY REVAND

Erdmann J F : The Colon: Its Malignancies. Med Rec ors bexerv 6 r By Surg Gynec, & Obst.

Since the author's last report of 45 cases he has had forty more In these the cecum was involved three times the s gmoid eleven, rectosigmoid thir teen rectum eight transverse colon three, and the perirectal tissue two. The youngest patient was 26 years old Each case was well advanced when seen by him He ascribes the failure of early diagnosis of these conditions to modesty on the part of the patients in speaking of the ailment and to refusal to submit to an examination Another factor is the too readily eased conscience of the physician in not examining such patients accepting the diagnosis of the patient or her family physician as to piles fissures etc Many also overlook the importance of a detailed history

The author then takes up the question of diagnosis in more detail He states that the early symptom atology is so vague and indefinite that a d agnosis is rare and difficult. The earliest symptoms are

discharge can escape into the excum and only cause a shight attack of indigestion R. W FRENCH

White G R Contracture of the Pages Parvus Muscle Simulating Appendicitis. Ann S re Phila 1913 lvu 483

White has found seven cases simulating appendi citis, with rigidity of the right abdominal muscles localized pain excessive tenderness and palpable tumor due to a contracted psoas parvus tendon.

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LEWIS B CRAWTORD

George A W and Gerber I: The Val e of the Röntgen Method in the Study of Chronic Appendicits and Inflammatory Conditions Both Congenital and Acquired About the Ca-cum and Terminal Iteum Sart Cynes to Obs. By Surg Gynec. & Obst 1913

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Differential Diagnosis of the Quimby A J Appendix, by Aid of Röntgen Ray A 7 1 J 1013 ZCVIII, 607 By Surg Gyace & Obst.

The author bases his paper on the results of 141 röntgenological examinations both fluorescopical and radiographical of the lower right abdomen. A his muth subcarbonate or barrum sulphate (C. P) meal is given and the patient is observed at intervals

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Palpation during fluoroscopy enables one to determine whether the appendix is fixed or movable The author suggests the necessity of first locating appears to benefit rather than injure dogs suffering with acute pancreatitis.

Min acute panteatuse.

Dogs with acute hemorrhagic pancreatitis which are subjected to exploration and removal of peritonal exidate will appear sicker than control does left

undisturbed

The pancreas can survive remarkable degrees of injury and this factor of safety should always be

injury and this factor of safety should always be considered in drawing deductions from any surgical procedure. Its capacity for repair seems greatest when it is left undisturbed in a closed abdomen

Stevenson E. S : Splenomegaly Bril M J 1913 n 247 By Surg Gynec & Obst

The author believes that Banti s disease with its enlarged splean and anemia is the last phase of splenic angenia. Rolletton has summarized the symptoms as follows. Angenia of the type usually spoken of as chlorotic namely, a diminution of red corpuscles with a diminished hamoglobin content absence of leucocytosis usually leukopenia consid erable splenic enlargement which cannot be correlated with any other known causes such as leukæmia tuberculous malaria syphilis and hepatic cirrhosis the long duration of the disease and the tendency to gastro-intestinal hæmorrhages. The author says that when the spleen is removed in splenomegaly the blood almost immediately improves in quality This fact makes it appear that the origin of the disease is in the spleen probably some toxin which destroys or injures the blood cells. Stevenson reports a splenectomy in a girl aged 22 whose red count was 1 500,000 per cmm., whites 4 568 hæmoglobin 83 per cent Twelve days after operation red corpuscles were 4,400,000 Whites II 200 hæmoglobin 82 per cent

### SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS MUSCLES, TENDONS. CONDITIONS COMMONLY FOUND IN THE EXTREMITIES

Cokenower J W: Joint Disease Due to Infection from Other Parts of the Body J Am. If Am. 2013 led 1450 By Surg Gyner. & Obst.

We must not forget that constitung trasma arthmits is only a symptom of a duesaw whose source is in some dustant part of the body. The presence of a unrelutils or a suppurating antern may be the only differentiating point between two apparently identical joint conditions. For citology of chronic paint lessons in children one should look for tuberculosis, speais, rachitic congenitá sppinis in young adults apecul septic infections from the mistanta or gentific-many frost mater stuff if a mistantia or gentificación en mistantia con a superior-many frost material superior consensation of tuberculosis, and in the contract of the contra

W A. CLARE.

Jacobs G. M: Conservative Treatment of Tuberculous Joint Disease Issue M J., 1913, Ex. So By Sung Gyace & Obst

The first treatment of tuberculous Joint denses an children should be conservative. This implies efficient protective treatment by some form of orthopodic apphanes Operative procedure should be considered only an adjuvant incasure and not be primary method of treatment. General hygenic supportant in joint tuberculosis than in lining tuber culous

The mechanical treatment is then discussed, as well as the use of bismuth paste and tuberculin The writer considers that bismuth paste has no intrinse value Clear vascine injected into a sinus exerts the same nufuence as boruth. The action is mechanical for by plugging up the sums it dame back the pus, excludes the air and prevents entrance of progenic bacteria.—all of which are favorable factors for the filling fine of the aims with granulations. His experience at the Home for Destitute Coppide Children has shown that the greatest success with bismuth paste has been in old numes from tuberculous joint discusse which have been discharging for one or more years. They could be cuted in seven days to two months, but new channels would form as an outlet for the tuberculous défins coming from the sext of disease.

The use of tuberculin has shown little promise in the hands of orthopedic surgeons. It is no longer administered in the author's practice.

In conclusion the author emphasizes the fact that the natural evolution of tuberculous Joint disease is toward recovery but with deformity and analysions. Nature can be assisted to effect a cure without deformity and with the minimum loss of function by early recognition of the disease together with conservative treatment, and long-continued observation.

Ely L. W: The Injection Treatment of Tuber culous Joints J Am, If Att 1913 lef, 1453 By Surg Gynec & Obst.

Mixubez in 1881 was probably the first to treat tuberculous joints by injection. He used foldoform and this is the substance that has since been advocated most strongly and persistently. Freshel in 1900 showed that nodoform was not antiseptic when so used found that bone charcoal and other inert powders were just as good and promoted healing the mechanical intrastion. After 31 years trail and subjection to contradictory chinical experience, foldoms is not worldy used in this country. It is as few

rational to attempt to cure a tuberculous joint by injection of the synovial cavity as to cure a tubercu lous lung by injection of the bieural cavity

W A CLARK

Orr H W Results Obtained in the Non-Surgical Treatment of Tuberculosis of the Joints J Am II Am rays in 1210

Joints J Am Il Am 1913 in 1570 By Surg Cyner, & Obst

In a study of fifty cases the author found that the active process of joint titherciales was prolonged twice as long on an average in the cases operated upon as in the non-operative cases also that the amount of the deformity was greater by about fifty per cent in the operative cases. The excuse of time awing in their proved to be a fallacy, for the patients are disabled longer either primarily by the operation or secondarily by march infection. Among the operative cases were also as the control of the control of the cases of the conclusions are that the best results are cases. The conclusions are that the best results are obtained by conservative treatment and that disability and deformity are much less in patients as treated.

Midelton W J Some Notes on Arthritis
Deformans with an Analysis of F fty Cases
Treated by Means of Continuous Counter
Irritation Hot Press & Cre 19 3 2571 425

The author considers continuous counter stritation the paracest for arthritis deformans. The principal methods for carryons this out are

The bluster followed by savia continent

Acupuncture with counter instant drugs such

as canthandes, croton oil, methyl salicylate oil of mustard etc

5 The actual cautery - preferably the galvano-

The first two are the most efficacious because of the exudation which takes place. Applications are made in the neighborhood of the spinal column

So efficacions is thus treatment that patients with fee exceptions who have been treated for years by such means as natural spa waters baths of many lunds massage, cranises insuration, residence in Egypt, etc. without lasting benefit, have improved Often but one or two blusters have produced great improvement. J cases

Fuller E. The Gure Through Genite Urinary Surgery of Arthritis Deformans and Allied Van ties of Chronic Rh umatism Med Re-2021 Extry 69: By Surg Gyme & Obst

Fuller reports upon a total of aff case operated upon by semant reactulotomy in which he had but one control of the second of the semant country in his last series of 65 cases, due to extension helphorius. In most recent observations upon the hactenology of the material obtained from the seminal vesicles at operation, Lavian, the pathologist has not discovered the genoaccuts larous conductions but unidently the streptococcus.

The complement firstion test in the acuter forms

of the affection was usually positive and ofetimes in cises showing a market tendency to demotity the test would be positive a year of we side the time that gonerhoes linection had everand according to the climical history. In once case we'll by positive test was found five years after the sized occurrence of the infection. In the most chross the contractive of the infection. In the most chross the had been no recurrence for a syndrom that there had been no recurrence for the syndrom test as seminal vesicultus persisting as a resulting loss, the fixation test was found to be negative.

The streptococcus could always be counted upon as ensting in such cases. The prognoss as regards the cure of absorptive rheumatism through season

the choice of the property of the control of the co

Martin, I A. M; Discussion on the Diagnosis and Treatment of Injuries of the Knee-Joist, Other Than Fractures and Dislocations. Bol M J 1913 u 1070 By Surg Gyner, & Obs.

The author emphasizes the point that the lace joint is not merely a hinge joint At the end of extension a certain amount of rotation of the femor takes place on the tibia for the inner condyle's articular surface is longer by one-third than the corresponding surface on the external condule Therefore the last one third of the act of extension is really a screwing inwards of the femur on the tibis. In the position of completed extension there is no lateral motion at the knee-joint However in the varying degrees of flexion varying degrees of lateral motion are allowed. It is the author a belief that for this reason it is only in flexion that tearing or splitting of the semilinar occurs This belief is based upon personal experience with 440 operated cases For supture of the besmentum patelles the author advises suture followed by rest in the fully extended position for eight weeks I uil flexion is not permitted for another two months For rupture of the ligaments where forcible hyperextension has been the cause he recommends spinting in the slightly flexed position for twelve or more weeks, followed by massage and exercise Where the internal lateral external lateral or anterior lifements are torn, he thinks the best treatment is

Rupture of the crucals does not readily rade to operative treatment and these patients are best irreated by a properly fitting knee brace. Mar the removes lose bodies without general unstabels. He first faces the body with a needle and then under local nursthess and street serges makes of local sursthess and street serges makes of the large number of cases of myury to the seminary crutages, a definite splitting or teams occurs car crutages, a definite splitting or teams occurs. of a total of 500 cases operated upon by Martin only 38 were external He explains this on anatomical grounds saving that the external cartilage has a much looser attachment than the internal Consequently, supposing it becomes engaged between the external condyle and the upper surface of the external tuberosity of the tibia and is then dropped toward the center of the joint stretching of its connections rather than splitting of its own substance occurs. In the case of the internal semilunar which has a close connection with the internal lateral ligament and the capsule a tear would be more likely to occur

A definite fracture of the cartilage may be caused by sudden extension of the knee while the loose semi long cartilage is held between the foint surfaces Martin says the treatment of torn semilunar carti lages depends largely upon the social position of the nationt A cast from toes to upper thich may be tried He prefers to operate seven to ten days after an attack. He uses chemical sterilization rather than dry A tourniquet is used the knee being thoroughly flexed. A transverse incision is made running fin the case of the internal cartilage) from the inner border of the ligamentum patellæ backward along the line of the joint for two inches Care is taken not to cut the internal lateral ligament. He aims to remove the entire cartilage. He uses no splint as an after dressing and encourages the patient to move the knee No fingers are allowed to enter the wound at any time during the operation, even though he and his assistants wear rubber gloves. Ten days later his patients usually walk without any support

Walton maintains that minries of the semilinar cartilage are brought about by hyperextension of the knee and not by a rotatory movement while the knee is in semiflexion. Out of 77 cases in his hands

73 were of the internal cartilage

#### FRACTURES AND DISLOCATIONS

neke II Spontaneous Rupture of the Extensor Longus Politics Tendon After Typical Fractures of the Redus—the So-Called Drum mes e Paralysis (Über Spontaurupturen der Schne der Extensor politics longus nach typischen Radus-brüchen und über de son Trommie lihmung) Heineke Deut he Zische f Aerrenheilk org lu Festsche Strumpell o By Centralbl f d ges. Char

: Grenzgeb

The so called drummer a paralysis according to Hemeke depends on the spontaneous rupture of the extensor longus pollicis tendon. The rupture is quite accidental and follows a weakening of the tendon by necrotic inflammatory changes due to repeated traumatism. But even after severe single injury spontaneous rupture of the tendon in oues tion can take place The author has seen two such cases in which four and eight weeks after perfect umon of typical radius fractures the tendon broke after the function of the hand was almost normal and the patients had resumed their regular occupations It is assumed that in these cases the healthy

tendon was injured at the time of the fracture and that a circumscribed portion gradually died and later the tear occurred at the necrotic portion. The tendon could not have been miured by the bony fragments as in neither case was there any displacement It is probable that at the time of the fall the thumb was forcibly bent backwards and abducted so that the tendon was injured where it passes beneath the annular ligament of the wrist Hemeke successfully united the tendon in one of the cases by freshening the torn ends The other case refused operation. Nevertheless, the author recommends suturns the perpheral end of the tendon either to the extensor tendon of the index finger or to the tendon of the extensor carpy radialis longior

Roth. O : Fracture of the Neck of the Femur and the Isolated Fractures of the Trochanter-Major and Minor (Der Schenkelhalsbruch und die isoherten Eriche des Trochanter Major and Minor) Ergebn d Chir w Orikop 1913 vi, 209. By Zentralbi f d ges Chir u i Grengeb.

The author does not approve of the usual division of fractures of the neck of the femur into intra- and extracapsular fractures He follows kocher's classi fication in which the following are recognized (1) Fractura subcapitalis which fracture extends to the head (2) fracture colli femoris intertrochanteri cs. the fracture which hes directly above the mass of the trochanter (3) fractura pertrochanterics the line of fracture running obliquely through the trochanters (4) The combined fracture which occurs when the neck becomes impacted in the trochanter in a fracture intertrochant Fracture of the neck of the femur occurs chieffs in old age and is more frequent in the female sex. Its frequent occurrence is due to esteoporosis which is brought on by old age Osteoporosis also affects Adam a curve whereby the angle made by the head and neck of the femur which usually is under 227 degrees, approaches more and more a right angle With such great leverage the effect of direct violence is greater. The routgen era has shown that this fracture is not such a rare occurrence in youthful individuals In 1903 Hoffs collected 87 cases Usually these were cases of separation of the epiphysis from the head According to Kocher growth along the ep physeal lines produces a dimin ished resistance

Fractura subcapitalis is produced by a fall on the trochanter the head which is held firmly by the lig Bertin being pressed against the acetabulum or it may be caused by outward rotation of the leg Frac-tura intertrochanterica is also produced by a laterally active force with the leg in the adducted position it is an extension fracture due to a fall backward. In the combined fracture the pointed Adam's curve wedges against the trochanteric mass and splits this asunder The diagnosis is based outside of the ront gen picture on shortening outward rotation pain on pressure or parring and limited excursion of the tro-

chanter All these symptoms may be present depending on the form and impaction of the fracture Sometimes infractions occur in children which later produce pain and deformity At times a second trauma converts an incomplete into a complete frac ture The prognosis is not favorable as regards life and function. Disagrecable complications such as pulmonary affections, urmary disturbances and car culatory disorders which may vitlate the result are not rarely observed. The functional result is to be attributed to the extremely slight tendency to healing in fractures of the neck and also to faulty positions Usually there is only fibrous union, which fortunately suffices for ordinary purposes Impacted fractures, especially the intertrochantene heal best. In subcapital fractures a disappearance of the neck is often observed. Subcapital fractures heal with the greatest difficulty because of poor nutrition. On the other hand irrectures in the trochanter region heal smoothly if somewhat slowly Impacted fractures give the best results. The treatment depends on the constitution of the pa-

If hypostatic pneumonia is feared the patients should be taken out of bed as soon as possible These patients are, as a rule doomed to use a crutch or cane for their remaining days. In most cases Bardenheuer's extension gives the best results. The leg is placed in an abducted position, with inward rotation applied below the knee Active movements of the upper extremities are used in elderly people to strengthen the heart Impacted fractures are partially loosened under narcosis to overcome the longitudinal displacement and out-ward rotation is used Strong abduction, as emphasized especially by Lorenz is of importance If it is desired to get patients out of bed early they may be desired to get patients out or led can, they may ex-permitted to walk with sustable walking bandages (Kocher Schanz Bender) Open operations have been recommended for the purpose of better adap-tation of the fragments. Nails avory pegs and screws have been driven into the trochanter (Lang enbeck, Franz König Trendelenburg Kocher) and bone suture has also been tried. Of further importance is the treatment of non impacted subcapital fractures Here Kocher advises resection of the head if the diagnosis is certain, while Fritz Könlg sutures the fragments with eluminium-bronze wire through a Hueter incision

The majority of physicians evidently try extension first and if this fails decide to remove the head others try a replacement by open operation (R. Whitmann) Fracture of the greater trochanter is brought about by a fall on the hip the fragment may be pulled upward by the muscles a distance of 6 cm The injured leg is in the position of adduction and mward rotation The treatment consists of extension with strong abduction and outward rotation of the leg Fracture of the lesser trochanter is more rare It is produced by a powerful pull of the ileopross The diagnosis is founded on the presence of an extravasation in the region of the lesser trochanter outward rotation of the leg and on Ludoffs symptom i.e the patient cannot raise his les while sifting but on lying down can raise it without restriction. These fractures all heal in the dilocated position but leave no disturbed function. Treatment is of no consequence as regards hesing, stretching of the leg with outward rotation with the thigh slightly bent being probably the most useful treatment

### SURGERY OF THE BONES, JOINTS, ETC.

Rovaing T: A Case of Transplantation of Sans from One Patient to Another (Homoplatte) to Supply the Lower End of the Femur (her emen Fall von freier Transplantation eine Kneches von einem Menschen sum undern (Homoplatik) is Enatts der unteren Obernchenkelhälte) Bay Tal.

Kgebenh., 1913 lvl, 845 By Zentraibl f. d. ges. Chir u i Grengeb

Roysing removed the internal condule of the feast for sarcoma and failed in an attempt to replace it by implantation of a piece of dead bone. Elever weeks later he did a homoplastic operation the corresponding portion of the femur of a recently amputated thigh being used to repair the defect. The operation was successful, the new bone im-planted twenty minutes after the amputation forming a perfect union. The patient a year after operation shows no recurrence and is able to attend to his regular work

Seidel: Operation for Habitual Luxation of the Shoulder-Joint (Über die Operation der habitoelio Schulterluxation) Zentralbl f Ckr 1913, 1, 134 By Zentralbl f d ges Chr a Grougeb

As ordinary capsular replacement is not always effective Clairmont and Ehrlich tried firstion of the capsule by means of a muscle and fascia flap from the deltoid brought over the capsule and as even after this procedure there were recurrences. Seidel tried free fascia transplantation-Olher's massion. His method consisted in the separation of the subscapulans muscle a few centimeters in front of its attachment to the least tuberosity resection of an oval piece of capsule suture free transplantation of a flap of fascia from the sheath of the rectus covering the entire joint intertwining of the lateral end of the fascis with the deltoid and suture of the subscapulans muscle. In this way tension of the capsule is caused by raising the arm A post mortem preparation from an epileptic case showed microscopically the complete preservation of the transplanted flap

MAYERSHACE

enz, A Bloodless Operation for Pseudar throsis of the Neck of the Femur (Uber da mbhing operative Behandlung der Pseudarthross colli femoris) Zisch f orthop Chr. 2013, XXII, 409-By Zentralbi f d. ges Chir u. Grenngeb

Lorenz. A

Lorens describes the different operations and is opposed to any radical operative procedure par

ticularly Borchardt s. He considers only median fractures just below the head. Perspheral and inter trochanteric fractures almost always result in bony umon The nearer the median line the fracture is the less chance there is of bony union because exact apposition cannot be obtained We cannot judge of the time taken for recovery by that of a fracture of the disphysis and no attempt should be made to bear the weight of the body for from six to eight weeks. Too much demand should not be made on the neck of the femur This is avoided by fixing the with the greatest possible degree of inward rotation The leg should not be used for a year after the accu dent. Lorenz says imperiect coaptation of the fragments is the chief cause of pseudarthrosis, but that even if bony union cannot always be attained the functional capacity can at least be improved and the pain lessened.

The poor function of the diseased leg is due to (i) Insufficient capacity of the neck of the femu to bear weight (i) attrophy and (i) contracture Firston and adduction are important agents in producing these condutions. Borchard does not behave in extra-articular sottomy in fracture of the neck which are lakely to beal in a poor position but Loreas preferr it because it is not diagrerous and because the real cause of the functional trouble does not be in the badly headed fracture itself but in the changed position of the femur Lorenz claims that climical examination gives a much more reliable diagnosis than rotateen ray photographs and gives a detailed account of the diagnostic ages.

Treatment of pseudarthrosis has two objects to bony union, which cannot always be attained, and overcorrection of the typical malposition caused by contracture which can always be attained. The author describes four cases.

#### ORTHOPEDICS IN GENERAL

Bamberg K. and Huidschinaky K.: Congenital Fragility of the Bones (Über augeborne Knochenbrüchigket) Johrb f Kinderh 1913 izvui 214 By Zentralbi f d ges. Chir f Grenzeb

From their own experience and literary research the authors have come to the following conclusions. Osteogenesis imperfects (1 rolix) and osteopasthy rous indopathical (Jobeten) show the same climical picture the most important symptom of which annelly brittleness of the bone is caused by an intra uterine predisposition to defective bone formation. Fifty per cent of the cases of osteopasthyrous are bereditary. The early form called prognosis on imperfects above fractures occurring during instruction into our labor and has a bad prognosis on terminal time in a labor and has a bad prognosis on the product of the control of the cases of the control of the control of the cases of the control of the selection and old and recent fractures with usually abundant callus formation were found. The skull submitted in the found of the selection and old and recent fractures with usually abundant callus formation were found.

represents a sac which adapts its form to the under lying structures and the degree of its ossification seems to be closely related to the vitality of the child. Heredity plays no part. Pathological snatomy abows apiasa of the compact tissue and the spongy substance of the daphysis and epiphysis with normal growth of cartilage, resulting in slender bones with weak compact tissue and almost no spongy substance which is shown in radiograms. Disturbed function or defective formation of the periosteum may be looked upon as the cause. The simultaneous presence of cellular and fibrous mar row in one of the cases carefully examined microsopically by the cauthors refutly examined microsopically by the authors refutly examined micro-

theory of a myeloplastic malacia.

The folds and kinks of the epiphyscal cartilage also described by Looser are partly the outcome of disproportions between the normal breadth of the epiphysis and the decreased diameter of the shaft and partly caused by fractures of the compact sub-stance The late form of the disease shows the same pathological anatomical changes as described in the early form but can be recognized with certainty only by metabolism experiments which show per manent positive calcium balance. The disease of the bones is not caused by loss of calcium but by incom-plete rudimentary formation of the bones with pregular distribution of calcium. In the second case reported by the authors experiments in metabolism showed retention of calcium, which could be increased three or fourfold by the administration of phosphorized cod liver oil. All affections which show permanent negative calcium balance do not belong to the class of so-called congenital fragility of the bones The prognosis of the late form is better because the fractures occur after birth and in 105 cases there was no death. The fragility is noticed first either from the ninth month to the second year of age during the first efforts to stand up or from the sixth to the fourteenth year of age during physical exertion. The fractures alone cause shortening and deformities of the bones. In the early form the fractures are exclusively transverse in the late form there are also oblique fractures. In the first form we see quick healing with copious callus formation in the late one the healing is often slow and the callus formation poor Differentiation of the two diseases is not possible either by ront genologic or histologic examination. SIEVERS.

Frving W G: The Treatment of the Results of Anterior Follomyelitis b M Semi-Month. 9 J r. 341 By Surg Gynce & Obst.

Erungg, es a brief history of the disease from the first systematic study of it by Heine in 1840 to the work of Pleaner Lewis Noguchi and Rosenau in isolating the causative m croorganism and demonstrating its spread by the stable fly

In the acute stage the mortality is often as high as no per cent but the resulting paralysis is of the greatest interest. Treatment during the first year consists of electricity applied either to the spine directly or to the affected muscles, but less is expected of it than formerly Massage active and passive hypergenia, and active or better passive muscle exercise are of much greater value Deform ity is to be prevented by splints or plaster or even tenotomy and manipulation followed by retentive apparatus to prevent stretching of weak muscles

During the third stage after all natural improvement has occurred the resulting deformaties must be treated by suitable operations, and then attention must be directed to restoring function by tendon transplantation suk inserts estectomies or arthrodeses He believes that tenotomies done early by preventing undue stretching of weskened muscles. often prevent deformity and make subsequent operations for restoration of function less severe. Flail joints are best immobilized by arthrodesis after ten years of age, but great care must be taken to avoid injury to epiphyses Nerve transfer has not been useful except in cases of muscles having the

same nerve supply Of all methods he believes tendon transfer with proper use of silk extensions and leasments has proved most satisfactory in well selected cases while in cases not admitting of operation well fitting apparatus and attention to muscle exercise and training will often do much good. C.E. Vens

Mills E. P : A Case of Tendon Transplantation to Overcome Defect Resulting from Pollomyelitis. A Eng M Gas 1913 thum 539
B) Surg Gynec. & Obst.

To the hterature is added a report of a successful tendon transplantation in a child for paralysis of the shoulder due to acute poliomyelitis occurring four years previously

An incision was made beginning on the neck and extending down over the point of the shoulder to just below the greater tuberosity of the humerus The skin was well retracted Search for the delto d failed to bring to light any fibers of this muscle. The aponeurous, however was present. The tendinous attachment of the superior fibers of the trapenus muscle was then severed from the outer third of the posterior border of the clavicle and the insertion of the middle fibers severed from their attachment to the inner margin of the acromion process and to the adjacent surface of the crest of the spine of the scapula These attachments were gathered together and were stitched to the lowest possible point on the capsule with the arm elevated to an angle of 110 degrees The aponeurous of the deltoid was then whipped over these fibers and the skin closed

The result shows that the patient can now lift and

hold out her arm to nearly a right angle

CHARLES M JACOBS

Fassett F J: The Operative Treatment of Paralysis in Children. Aerikeest Med., 1013 v By Surg Gyner, & Obst.

The author notes the predominance of the faced spinal type of paralysis following the epidemic of 1908 1909, and 1910.

In 200 cases under his observation, not less this three years old, thurty five have been operated men the remainder being given mechanical treatment spontaneous recovery occurred. Indications for operation are to correct deformity to present for their deformity and to secure stability. The author emphasizes the importance of sustaming position after operation and the use of only those muscles which may be spared to advantage in tendon trans-

plantation. Fassett describes the operation of partial arthrodesis for simple foot-drop. The posterior articular surface of the astragalus being used only in the position of toe-drop he abolishes this quarter and prevents deformity. The operation divides the heel-cord and raises the posterior ligaments until the base attaches to the tibia. The synovial membrane and cartilages are removed from the postenor quar ter of the articular surface of the astragalus and the Fap of ligament sewed on to an attachment along the anterior edge of the denuded area. The heel-cord is then sutured the wound is closed and easts are

applied for a month. In cerebral plastic cases he prefers plastic tendon lengthening and operates only on those in whom mental capacity warrants it. H W Margaping.

Lord J P: The Whitman Operation for Talipes Calcaneus Paralyticus. J Am II As. 1911 lm 1374 By Surg Gynec & Obst. The author gives in detail the technique of the

Whitman operation and summarizes it as follows The removal of the astragalus
 The freeing of the malleol; and the preparation

of a new articulation 3 The transplantation or resuture of the percent

tendons. Backward displacement of the foot. The fixation of the foot in equ us.

It is a radical operation and is indicated in est treme cases of paralytic deformity of the foot for the establishment of stability Feet on which it is per formed do not wabble or roll nor tend to do so From his experience of twenty cases the author concludes that the operation has a wider range than for cal caneus alone and should become more popular among surgeons The frequent fallure of tendon transplantations, silk implants etc. due to weakened and overstretched muscles justifies the adoption of astragalect my in extreme cases C W CLASE.

# SURGERY OF THE SPINAL COLUMN AND CORD

Tacherniak M: Acute Suppurative Osteomy elitis of the Spine (Zur Km tms der akuten e tngen Osteomyelitis der Murbelsaule) Disseriation Königs-

By Zentralb! f d ges Chir u l Grenzgeb

The total number of reported cases is 6; The author reports a case of ostcomychtis of the spine in a q-year-old girl operated on by Lexer In the course of the disease paraplegia suddenly developed with total anxithesis from the lower border of the ribs down Incision was made from the ninth to the twelfth dorsal spines To the left of the minth dorsal vertebra there was a pocket of our The spinous processes above this were removed till the upper end of the cavity was reached. The dura was not opened. A drain was placed in the canal between the bony wall and the dura The woun i was tam The motor paralysis poned with stenle gauge improved markedly and sensation was fully restored A metastatic abscess developed in the left knee. Two months later the child died after profuse bleeding from the arms and vagina

Any part of the spine may be affected though it is usually the lumbar region. If one vertebra is affected the condition may exist only in one of its processes. In most cases the vertebral arch with its processes is the seat of the disease while in tuber culosis the body is usually affected. Frequently there is a history of trauma. The point of origin is often hard to find Anguna furuncle or whitlow may be the primary infection Bacteriologically staphylococcus pyogenes aureus is most frequently found. The location of the focus in the spine deter mines which way the pus will burrow and this may oring about serious complications. Rupture into the spinal canal is the most serious accident on account of the miury to the spinal cord from pressure of the pus or extension of the inflammatory process in the form of a myelitis Usually the disease begins suddenly with severe symptoms, so that the patient may be semi-conscious from the onset and a diagnosis is d flicult for a few days Later the pain along the pine directs attention to that region. The prognosis should always be guarded on account of the frequency of metastases Formerly the mortal ty was 58 per cent but now it is 41 5 per cent. In spite of operation Lyphosis fistula paralysis or paresis may develop Treatment must be operative prevent Lyphous all methods of treatment for spondyl t s should be adopted extrusion etc.

Calvi J and Lelièrre II Radiography of the Vert brai Col main Profil in Pott s Disease Am J Orth Surg 10 3 2 193 By Surg Gyner. & Obst

The authors recommend I teral contgenograms in Pott a disease of the spi cas being of value firstly

in determining very early changes secondly showing accurately the extent of the lesion thirdly indicating the most useful orthopedic procedure to be employed in the treatment and lastly ascertaining when a cure has been obtained.

Clearly marked thinning of the intervertebral dusiffected is the most constant easily finding and occurs amultaneously with such presumptive clin ical evidence as localized contracture and slight difficulty in gait. Destruction of bone and consequent kyphosis occur later and the degree and extent of involvement can be clearly demonstrated by the profile routgenologic examination.

This likewise reveals how the deformity is produced and the data thus obtained are of value in deter

mining the proper treatment for its correction Examination of the normal spine during strong flexion or extension indicates an axis, called the neutral point by the authors which sustains the minimum pressure in all the principal movements of the spine In Pott s disease the portion in front of this point and which is the usual seat of origin of the lesion being subjected to greater pressure under goes compressive ulceration. As a result of this the body of the vertebra gradually becomes cuner form in shape and Lyphosis results. In treatment the sum should be to take the pressure off at this anterior portion by inducing a lordosis and thus to prevent deformity If Lyphosis be present when treatment is begun the induced lordous exerts a second beneficial result in that it shifts the greater pressure posterior to the neutral point and causes compressive ulceration of that portion. This tends to change the shape of the body of the affected vertebræ from cunciform to rectangular and bring the spinous processes together and thus lessen the deformity A compensatory fordosis immediately above and below the affected part assists correction by causing extens on of the intercertebral disc anterior to the neutral point and compression posterior to that point

The extent of the lesson as shown by the lateral tonigenogram directly affects the prognous as to the ultimatic outcome and also duration of time necessary to effect a ture. No changes pointing to contriction are visible before two or three years and the time necessary for oscosio consolidation, which is the last stage of repur may be considerably longer. Other compensatory changes may liewise be observed by means of the routgen ray and serve as a record of the progress made of the routgen and the server of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the progress made of the routgen ray and serve as a record of the routgen ray and serve as the record records and records records

Adolph Hartens.

Turner W G The Treatm nt of Tubercular Spondylitis or Pott a Disease C and M Air J 19 3 1 85 By lung Gyner & Obst

The mun subject of this paper is the radical treatment of Pott's disease — considering particularly Albee's operation — In three instances unexpected tuberculous tissue, with cold abscess formation was accidentally cut into in the region of the spinous processes but, this contingency notwithstanding the grafts were inserted and primary union resulted in each case.

In four cases skiagraphs were taken ten days

to two weeks after operation showing only as imperceptible shadow of the graft.

In three cases flexibility of the spine was appared four months after operation, and yet improvement, local and general was marked in all cases.

CHARLES M JACONS.

# DISEASES AND SURGERY OF THE SKIN FASCIA APPENDAGES

Valentin B: Experiments on Homoplastic Fascia Transplantation (Experimentale Untersuchangen un homopolatisches Fascastransplatation). Buts a B s. Clav., 1931 [Excv. 574-By Zentralbi. I. d. ges. Clav u. I. Grangeb

After breefy reviering the present status of bomopleatic tasses remaphantates. Vilentia has made a hasteleged study of this process in simple facial tissue, regarding it as the basis of all progress in this direction. The field of application for free mostly antoplastic fisacs: transplantation is to-day already so large that the question of suggesting material homopleatically becomes of especial interest. In a sense of experiments on dops, a piece of facus his was removed from a dog and either immediately implanted in a gap in the personnel most another dog with all muture of the photomer of the position of the process of the pr

used because the nutrition is more rapidly restored and functional stimuli returned more rapidly by partial removal of the abdominal wall (muscle resection) on account of the necessary resistance against the natural abdominal pressure. In various esperiments conducted at Intervals of 4 to 296 days. the fascia had mostly healed without being replace by scar or connective tissue. In the first few days a marked cedematous swelling of the whole fastia, with leucocytic infiltration takes place characteristic spandle-shape nuclei retum then staining power as the sign of life, and the cluster fibres are also preserved. After 24 days scarcely any difference from normal fascia is to be recognized The question of relationship in the animal plays to rôle in the healing. The healing process in homotransplantation is more intensive than in auto-transplantation the time element being increased (about 100 days as compared to s6 days

Destroy

# MISCELLANEOUS

CLINICAL ENTITIES — TUMORS, ULCERS AB-SCESSES, ETC.

Strauch F W: Experimental Transmission of Tumor Cells (Experimentelle Übertragung von Geschwilstzellen) Bei bis Weissele prz 1,142, By Zestralbi, i d. ges. Chr. u. i Grangeb

By Zeninkli, I d. gec. Chet. a. I Grauph The trescribes of Apolant, Henke, and Lewin demonstrated that there was no essential difference between human cancer and that of muc. Structh was able to transplant tumers from the subsequence of the control of the module of the control of a mouse which had passed through 36 annual aways made in the smillary space. The constituents of the food given the salmilary space to the control of the conductor of the development of the control of the

The transplantation of cancer of mice into rabit was done as follows. A sp per cent remains of cancer junc from tumors averaging 6 weeks of was inocalisted under the sinn of the back, with sp per cent possitive result. Cacheria usually developed a few days after moncalistic Transplanta mon these tumors were inocalisted successfully in root per cent of cases, into other rabbits and these through

very rapid and vagorous development. The transplantation of these ribbit cancer luci lato muce was never successful. The morphology of the tamors front these two namels was quite different but those from the same appears were side. If you case expensated on netstate of form of the grown. A local recurrence appeared in the same strength of the grown. A local recurrence appeared in the same strength of two occasions suppicious noules were seen in the laver. The vaccunation tumors are hard to classify hatelogically Reserver.

Curr W P A Study of the Cancer Situation.
Swy Gynes & C 1913 Evil, 490.
By Surr Gynes & Obst.

Carr reviews se anown facts bearing upon the patoology and emology of cancer. He finds that carringues is assentially a wild growth of epithebal

cells and that, while in some instances these cells may be embryonic inclusions they are in most cases probably normal epithelium that has under gone a sudden change. In either case the cells which have been lying dormant or acting in a normal manner for years, suddenly begin to grow wild When we are able to state definitely the cause of

When we are able to state definitely the cause of the wild proliferation we shall have solved the problem. In the light of our present knowledge but three explanations seem possible (1) Lack of nerve con trol that normally regulates the activates of every lung epithelial cell (2) intolications of the cells either by germ infection or by absorption of possons from the almentary canal (3) altered food supply to the cells. After carefully considering these possible causes he concludes that most carcinomats are due prunarily to alteration or destruction of the normal influence from the central nervous system on the spathelial cells of the body and that the central nervous system on the substance from the central nervous cystem on the state of the body and that the carbanation of the central nerve cells an important precisposing cause whether the exciting cause be simple trawns or infection with a cancer germ and that if this predisposing cause could be prevented few cases of carcinoma would occur either

from prolonged urniation or from germ inoculation. He recognizes a precancerous conduion the results of cuylated modes of living in which there is exhaustion of the granular matter of the braza cells, shrevel mig of the nucles and complete destruction of some cells, occurring while the somatic nutrition is still good and the epithelial cells active it a premature gang of the central nervous system while the epithelial cells are comparatively young. This explains the immunity of savages to cancer and its increasing prevalence among the cuylated particularly in muddle life He believes this precancerous state is caused by netwous worry and auto-misorica tom and that it can be recognized and prevented if patients can be made to live as they should. Thus is the best hope for checking the increase of can

DeKeating Hart: Researches on the Pathogenesia of Cancer Productioner Lond 1913, 30: 445 By Surg Gynec & Obst.

The author gives an outline of the most important theories of the cause of cancer and goes into a rather full discussion of each theory pro and con

The parasite theory has been advanced by several authors but has few supporters. No microbe has positively produced any neoplasms in controlled and repeated experiments. Since material proof is wanting as to the exact cause of cancer analogy on wanting as to the exact cause of cancer analogy on essential differences between melections and cancer are the following (1): Cancer requires the complete capability of the experiments o

The cellular theory is supported by many known facts of cellular animal life. Both normal and can cerous tissue can be grafted on an organ other than that wherein they were developed. Grafts of both grow better in closely related individuals and are absorbed in an organism belonging to a different species from that from which they were taken. Both and the support of the property of the control of the support of the property of the support of the suppor

The arritative theory seems to explain many of the facts observed in the study of cancer Menetires showed that chrome gastritis can develop into adenomatous tissue and this further into carrinoma. At no stage is it possible to state that the cancer begins, but it is a gradual transition. According to his theory cells which can reast the lowered physiological condutions in which they have vegetated are nothing else but cancer. Irritation is the first stage of infilamation and is accompanied by heat and vaso-dilatation. If has been shown experimentally and karyokiness of the urristed cells. This theory doubtless explains many of the phenomena of cancer and is the one strongly supported by the author.

J H SKILES.

Levin I: The Mechanism of Metastasis Forms tion in Experimental Cancer J Exp Med 1913 2vm, 397 By Surg Gyner & Obst.

In this investigation Levin undertook to study the influence of the host upon the development of metastatic tumors Two inoculable tumors (a spindle-celled surcoma and an adenosarcoma) of white rats were used Levin concludes that the main factors in determining the frequency and localization of metastases are the character and malignancy of the tumor cell on one hand and the general and local suscentibility of the organism of the host on the other These differences are not due to the ease of detachment of the cells of the primary tumor The experiments also show that after radical removal of a cancer without local recurrence inocula tion of the same tumor into the original host will always be unsuccessful. The reverse is also true. This shows that when the organism possesses a certain amount of resistance it is able to neutralize the few cancer cells which must be left behind after the most radical operation and for the same reason metastases or secondary moculations will fail to grow JAMES F CHURCHEL

Hugo E. W: Trauma and Sarcoma (Trauma nd Sarkom) Zitchr f Hypene gericki u pr ki 1/ed 913 alix 716 By Zentralbi f d gra. Chir i Grensech

Hugo reports the occurrence of a tumor along the line of fracture of the upper arm which be believes developed as the result of transmatism. The tumor was diagnosed by X rays, as weeks after the fracture was diagnosed by X rays, as weeks after the fracture was done the case fulfills all the conditions laid down by Coley and Them to estable han at tolo call rela

tuberculous usane, with cold abscess formation was accidentally cut into in the region of the spinous processes, but this comingency not withstanding, the grafts were inserted and primary union resulted in each case.

In four cases skusgraphs were taken ten days

to two weeks after operation aboving only sa imperceptible shadow of the graft.

In three cases flexibility of the spine was appared four months after operation and yet improvement, local and general, was marked in all cases

CHARLES 31 JACOBS.

# DISEASES AND SURGERY OF THE SKIN FASCIA APPENDAGES

Valentin, B: Experiments on Homopiastic Fascia Transplantation (Experimentille Unitersuchungen zur homopiastischen Fascentransplatation) Beitr z Bin Chr. 1913 bzzv. 314. By Zentzakl. 1 d. ges Chr. 1. Grengeb

After bredly reversing the present status of homoplastic tissue transplantation. Velentin has made a hantological study of this process in simple facial tissue regarding it as the bass of all progress in this direction. The field of application for free mostly antiplastic fiscace transplantation is to-day already so large that the question of using the same maternal knonoplastically becomes of especial interest. In a series of experiments on dogs, a pacer of facial hat was removed from a dog and either immediately implanted in a gap in the perioneum of physiological sail solutions at hoty temperature for ten to fifteen minutes while the use of umplantation was been prepared. The abdominal cavity was

used because the nutration is more rapidly restored and functional stamula returned more rapidly by partial removal of the abdominal wall (music resection) on account of the necessary resistant against the natural abdomnal pressure. In vanous experiments conducted at intervals of a to sof days. the fascia had mostly healed without being replaced by scar or connective tissue. In the first few days a marked tedematous swelling of the whole facus with leucocytic infiltration takes place. The staining power as the sign of life and the elatic fibres are also preserved. After 24 days scarcely my difference from normal fascia is to be recognit The question of relationship in the animal plays as rôle in the healing. The healing process in homo transplantation is more intensive than in autotransplantation, the time element being incressed (about 100 days as compared to 26 days)

Trapet

### MISCELLANEOUS

CLINICAL ENTITIES -- TUMORS, ULCERS, AB-

Strauch, P. W.: Experimental Transmission of Tumor Cells (Experimentals Unetrogong von Geschwüstzellen) Erd Mis Veisseir 1913 1,1415 By Zestralbi f d. gez. Chir. u. i. Gerangeb.

The researcher of Apolant, Heake, and Levan demonstrated that there was no essential difference between human cancer and that of miles. Stream, was able to transplant immost from one annual to another whether of the same or different species. The injection of the undistoned was to amount of a mouse which had peared through 50 minusis. The injection of the undistoned The constituents of the production of the undistoned the constituents of the product of the transplant of the t

The transplantation of cancer of mice into public was done as follows. A 55 per cest enabland of cancer junce from tumors averaging 6 weeks always mechatic under the skin of the bote, with 39 per cent positive result. Cacheaus smally developed a few days after inoculation. Transplant after intended to tumors were innoculated successfully in 200 per cent of cases, into other rathbast and these showed

very mpol and vagerous development. The trunsplantation of these rabbit cancers but into more was never successful. It may be the tumors from these two and man in morphology of the tumors from these two annual was quite delicent but those from the same species were able. It gases experimented on nextrastes were found in only 2 and that a small nodule in the feature express. A footing the morphology of the feature express. A footing were seen in the lare. The vaccination tumors are hard to classify hatologically a feature.

Carr, W P A Study of the Cancer Situation.
Surg Grace & Obst 1913, XVI. 490
By Surg Gynec & Obst.

Carr reviews he known facts bearing upon the c thology a cilclogy of cancer. He finds that a rinorms -centrally a wild growth of epithelial

Herateler rejects the retention hypothesis for the following reasons. The cystic contents are not unn our but are similar to the contents of similar cystic steecher. The cysts are at no time tubular 1 many cases the kidney substance in which the cystic he is quite normal thus ruling out occlusion. The many cases the Kidney substance in which the cystic he is quite normal thus ruling out occlusion of aliminations etc. Objections to the assumption of embryonal error are (i) The genesis of the tubules in two parts is not beyond question (a) there is no evidence of a failure of unon between segments (3) the cystic are not confined to the cortical zone (4) there is no evidence that the contents are the result of secretion by read spitchelium.

This negative evidence together with the facts that papillary growth of the inning cells is frequent, and that the disease is progressive in character leads to the assumption that the disease is a neolastic one

Microsopically the cysts may be surrounded by normal kindey issue particularly in infants of portrain kindey issues particularly in infants or a normal kindey tissue particularly in infants of be sur rounded only by a minimum amount of intersistial material in the surrounding fibrous issues reading the infants of the surrounding fibrous issues cliently infants of the surrounding fibrous issues cliently infants of the surrounding the surroundi

Polycyatic disease in other organs corresponds entirely to that in the ladiney both in structure and contents the latter in no case containing material peculiar to the respective organs. That the disease has a congenital basis may be inferred (1) from its frequent association with other developmental errors (2) from its tendency to appear in other members of the same family or in successive generations. One may assume therefore that poly cystic disease is neoplastic has a congenital basis and affects usue which is common to all the localities mentioned.

Follyspine disease is similar both in structure and eystic contents to certain other conditions which are undoubtedly lymphatic in origin namely cystic disease of the spleen and suprarials, pararenal cysts, progressive cystic disease of tendon sheaths, cystic disease of the spleen and suprarials, pararenal cysts, progressive cystic disease of tendon sheaths, cystic disease of the spleen sheaths, cystic disease of the spleen sheaths, cystic materials of the tongue and skin. In In hose by the formation of defit is et at sith those found in the connective issue surrounding the cysts in polycystic disease. It seems probable therefore and climical experience learn it out that the progress of polycystic disease. It seems probable therefore of polycystic disease for matrices in the kidney is of polycystic disease. For matrices in the kidney is of polycystic disease for matrices in the kidney is of polycystic disease. For matrices in the kidney is sufficient to the specific disease of the specific specific specific disease.

(1) Polycystic disease is identical in all the parenchymatous organs (3) It resembles closely cystic formations which are known to be derived from lymphatic channels (3) Polycystic disease probably develops from the lymph channels of the organs affected

Borst M The Importance of Zoölogical and Individual Relationship in the Transplanta tion of Normal Thanes (De Verghanum nor maier Gewebe in three Beachung ur zoologischen und individuellen Verwandschaft) T Internat C ng Med Lond 413 Aug By Sung Gynec & Obst

The transplantation of normal tissues and organs in the same individual (autoplastic transplantation) is always to be preferred to that between different individuals of the same species (isoplastic transplan tation) and the latter is superior to transplantation between members of different species (beteroplastic transplantation) The result of any transplantation depends primarily on the different developmental stages of the graft and of the host Isoplastic and heteroplastic transplantation especially give better results in embryonic than in mature tissue and are available within wider limits in plants and lower animals than in man. The natural relationship of species is shown clearly in heteroplastic transplants. tion - in the higher animals it is unsuccessful Brochemic differences, not only between individuals of different species but between those of the same species and even those of the same variety offer obstacles to the success of isoplastic transplantation in the higher animals. These differences decrease with an increase in the degree of relationship within the species therefore isoplastic transplantations between blood relatives have the best chance of success The establishment of the fact of individu ality in a biochemical sense is one of the most im portant results of the experiments with the different methods of transplantation Complete harmony in nutrition and function is found only in the tissues of one individual

Von Fürth O Problems of Physiological and Pathological Chemistry (Problems der physiologuchet und pathologychen Chemie Flating Voricsungen ber neutre Ergebnisse und Ruchtungslinen de Forschang Bd Gewebschem ) Le pasg Vogel 19 By Zentralbi f d ges Chir u. I Grenzech

In a surpical abstract only those matters bearing on surpical questions will be considered. In regard to albuminous patrefaction auto intoucation still is not explained. That there is an accumulation of tone patrefactive products in the intestine during leass is creatin but it has not been proven that an absorption of these products from the intestine also piece. Whether this challing patrefaction also takes piace. Whether this challing patrefaction also have present the products from the intestine absorption of the base however has been dispinished and the products of the products o

tionship between trauma and the appearance of the tumor Coley's requirements are that the tumor appear as a primary growth a comparatively short time after the injury and at the site where trauma was inflicted It must also be known that the organ or member was healthy before the accident Theun lavs down the same conditions and adds that if there exists a new growth at the time of injury, the development of which is hastened by the accithe increase in size is about four times as rapid as in ordinary cases

ROUSSY G Cholesteatomas (Les choléstéstomes) Bull l'Ass fran & l'aude du Concer, 1912, v 191 By Journal de Chironne

After a very minute study of 23 of his own cases of cholesteatoms in man and animals the author shows that the term cholesteatoms at present includes widely different kinds of tumors as to location objective characteristics and histological structure The only characteristic they have in common is the presence of cholesterin crystals in

their interior The deposition of this material in the tissues in crystalline or hould form represents an infiltration of fatty substance (cholestern infiltration) which may be observed in inflammatory new formations as well as in true tumors. Certain effects of local deposition of cholesterin are well known such as xanthelasma, arcus senilis and atheroma be admitted therefore, that cholesterm infiltration, whether primary or secondary to microbic infection may contribute to the formation of meoplasms because of the morbid reactions it gives tise to in the

The name of cholesteatoma is given to these neoplasms So cholesteatomas caused by local deposits of cholestern have the same relation to cholestermma as tophi have to uric acid intorication We cannot properly divide them into false and true cholesteatomas, the first being represented by degenerated inflammatory masses (those of the ear for example) and the second by endothehomas which have undergone cholesteria degeneration such as those of the meninges

The cholestestomas of the choroid plesus of the horse do not belong as is generally thought to tumors of the endothehum type but rather to the class of false inflammatory tumors characterized by cholesterm infiltration

As to the cholestentomas of the meninges of man it is probable that they are tumors of variable nature and origin frequently with secondary changes and almost always with cystic transformation - tumors of the epithelium of the ependyma ep thehal tumors from fortal inclusion, a sort of epidermoid cyst of the brain and perhaps also endotheliomas The same thing is true of a series and ther timon, such as glaudular epithelomas, particularly those of the sexual glands, which often especially in their embryonic form, show region inch in deposits of cholesteria

In short there is no group of tumors with dealy enough defined anatomical and histological charge teristics to deserve classification together under the name of cholestestomas The term should not therefore be used except in a purely morphologon SERSE. TRAN CLEVE

Benedek, L.: Paraffinoma; with Report of a Cast (Die Paraffinoma) Ped red cher Press, 953 thr. By Zentralbl 1 d ges. Chr i Cometh.

Paraffin tumors may arise from its injection in warm, liquefied form as well as from the appl cause of the hard cold substance. On account of the firstation of this foreign body on the neighboring tusues a productive inflammatory reaction takes place. Paraffinomata are seldom seen as they ame a long time after the injection and cause very hite discomfort The actual cause of their occurrence is still a matter of doubt. The amount of pressure exerted during this injection and the size of the man injected may have some bearing on their drickspment

The author reports a case that came under treat ment for a paramous. There was a paraffin tumor a each breast. The akin over the upper half of each breast was spotted blush red for an area the une of the palm of the hand, and was firmly attached to a hard oval tumor about 2 cm thick From the upper part of each tumor arose eight to ten pregulat nodules varying in size from that of a pea to that of a hazel nut. An even larger number of node could be felt in the infra- and supraclavicular fosse some of which were arranged like a string of beads the avillary spaces being free, however On account of the mental derangement the cuology was disputed and two of the nodules were removed to confirm the diagnosis by microscopic examination. The section showed paraffin nests 40 to 50 cm in diameter surrounded by well-defined isministed connective-tissue capsules, which here and there sent partitions toward the center of the little nodules and divided them into compartments. In the interstitual tissue there was marked tound-cell infiltration mostly of lymphocytes There was also a large number of grant cells in a network of young connect ive tissue fibres There were very few b A CHARGE

Hertzler A E. Pathogenesis of Congenital Cystic D sesse of th Parenchymatous Organs S of Gymes & Obst 19 3 gvn 480 Gynes & Obst

Polycystic disease occurs in various organs, kid ney liver pancreas, spleen cerebral appendages, ato-unnary tract etc but has been sdequately audied only in the kidney The cysts in this organ have been considered by most writers to be due to the retention of fluid in the unmicrous tubules, the precise cause of retention being explained in two general ways ( ) Active pathological processes (2) failure of union of the two parts in which the tubules are assumed to develop

cells a peculianty not invested in the serum of cancer patients. This serum reaction is only an aid to the clinical diagnosis The ability to grow normal and pathological tissue is of tremendous significance for the study of the cancer problem The immuniza tion against malignant tumors with curative serum and epitheliotoxins has led to no practical results Vaccination with non virulent virus of hamorrhagic mice tumors as well as the immunization with normal tissue parts are accomplishments of very recent date and offer splendid prospects The work may be recommended to every surgeon for practical LOSE onentation

# SERA, VACCINES AND FERMENTS

Relati e Value of Living and Dead Tubercle Bacilli; and Solutions of Their lotozins in Active Immunization Against Tuberculosis (Über den relat en Wert lebender und toter Tuberkelbacillen und deren Endotoxine in Lösung bei akt er Immunisierung gegen Tuberk lose) Beitr 2 Ki n d T berk Würzb 9 3 EXV 353 By Zentralbl f d ges Chur 1 Grenzgeb

The author gives his own experience in immunization begun in 1806 and discusses Friedmann's pubheation which claims to have obtained cures in even progressive cases of tuberculosis by immunization with living tubercle bacilli from cold blooded ani mals Von Ruck 1806 used an aqueous solution of tubercle bacilli with the fatty constituents removed after grinding and several months maceration After several years of comparative experiments with different tuberculins on partial ant gens and after further e periments on animals in the light of modern serologic achievements he has returned to the old aqueous extract since it contains all the constituents of the tubercle bacilli including their nucleo-proteins and fat content free in the solution A a agle dose brings about in the short time of four to five days the appearance of all partial ambocentors in sufficient quantity to give the serum of the patient complete lytic power and to destroy the virulence of the tubercle bacilli. Since this vaccine is effective it is not necessary to use an antigen of haing tubercle bacilly as he shows from the litera ture this is not without danger

He then discusses the theoretic principles of methods of immunization with hime non virulent bacilli or their endotoxins in their relation to the pract cal specific prophylaxis of tuberculosis. He has given more than 700 injections of his vaccine to ch ldren and adults most of whom had been shown by previous examination to be tubercular Clinical examination of them afterward in connection with expense t on an male have shown that this meth od yields all that can reasonably be e pected of immunization In regard to the curing of progres-i e cases of tuberculous in spite of Friedmann's claims he t kes a decided stand again t optimisti hopes regar ling the use of e dotowns of barilli or non rulent bacille ev n of cold blooded an m le as a means of tr atment STAUVIES

Brandweiner and Hoch O Gonorrhoni Vac cines (Mittenlung ber Gonorrhoe) II en kli IV charche 1913 xx 1, 304 By Zentralbi I d ges Chr u Grenzgeb

Autogenous gonococcus vaccines produce a stronger local reaction than either monovalent or polyvalent virus from other sources Allogenous polyvalent vaccines produce more marked reactions than the monovalent and in this respect sometimes resemble the autogenous vaccines very closely The assumption that there are differences in the strains of gonococci is thus confirmed Polyvalent vaccines of different sources but from the same manufacturers gay e about the same local reaction with equal dosage BLANCK.

Von Dungern and Halpern: Complement Fixa tion Reaction with Cerebrospinal Fluid in Car cinoma (Über Komplementbindungsreaction mit Lequor cerebrospinalis bei Carcinom) Hünchen med li chusche 1913 lx 1923 By Zentralbi i d ges Chir u 1 Grenzgeb

The authors used acetone extract of the red blood cells of a paralytic without the addition of sodium hydroxide as an antigen and also a heart extract The fluid which was free from blood was used in doses of from 0 4 to 0 c cc Five cases of carcinoma showed positive reaction in the cerebrospinal fluid though there was no disease of the central nervous system Syphilis was the only other condition that showed a positive reaction. The fluid of syphilities however reacted at the same time with heart ex tract and the pure carcinoma cases did not. In carcinoma the possibility of a general infection must be considered LREUTER

### BLOOD

Stewa t: Studies on the Circulation in Man VII The Blood Flow in the Feet J Exp Med 1913 xv1 354 By Surg Gyacc. & Obst

Stewart found that the blood flow in the feet is smaller per unit of volume of the part than in the hand the ratio of foot flow to hand flow per roo com of the part usually ranging in normal persons be tween I to 3 and I to 2 In the supine position with the legs hanging down the flow in the feet seems to be somewhat greater than in the sitting position

IAMES T CHURCHILL

Stewart Studi s on the Circulation in Vian VIII The Blood Flow in th Feet with Special R ference to Fever J Est Med 10 3 xvi B) S rg Gynec & Obst

In the cases of fever in estigated the flow in the feet never exceeded the normal flow and was usually much below the normal It is suggested in expl na tion that n fev r cases the vasoco trictor mecha nism of the peripheral parts e pecually of the ski is abnormally excited and some evidence that this is the case is presented. The gnificance of this in creased cutaneou asocon triction is assumed to be that it is a compensat 13 arrangem at which secures activity the formation of acid within the muscle fibers produces changes in the sonotic relations and in the distribution of the water. This issue change in the osmotic relation of the music is also held to be the cause of rigor mortis since the disappearance to the control of the control of the control of the white the control of the control of the control of the white processor and the control of the control of the validous produce an early raper as each muscular contraction increase the quantity of lactic acid.

In the chemistry of nerve substance the hooks have assumed especial significance Cohoin, a substance found in the brain is physiologically and surgically interesting. The action of many fresh organic extiracts in decreasing blood pressure depends on its presence especially thyroid extract and bowel extract in infravenous microtions. In small doess it produces decrease in the cosquibility of the blood and severe perstalais of the bowd carriers perstaline formore probably certis

its action through the choirs present. The problem of blood congulability has many interesting points unsolved. Whether the decreased congulability of the blood in hepatic dessess and after chloroform narcosis is due to a decrease in distraction of the constraint of the congulability of the blood in hepatic dessess and after chloroform narcosis is due to a decrease in cancelle on a stitchemother remains unexplained. The increase in coagulability following severe loss of an activation of the circulation of an extremity acts as a fruccotypife as a result of accumulation of an extremity acts as a fruccotypife as a result of accumulation of thrombotinuse inorden to the venous congestion. Infusion of salt solution probably increases the blood coagulability by washing out the thrombotinuse from the tissues late the venous congestion. Infusion of salt solution probably increases the blood coagulability by washing out the thrombotinuse from the tissues late the venous congestion. Infusion of salt solution probable constraints of the constraints of the most constraints of the constraints of the most constraints of the constraints of the constraints of the most constraints of the co

Instead of standaring the production of thrombianse it may be directly replaced by tampoung the since it may be directly replaced by tampoung the size of his morning with thrombianse powder or with extracts of spleen through the results of open standard thrombianse powders of portrain human or animals secure The action of column altis in Promoting those of column altis in Promoting thrombian powders of the pathograms of his properties of the problem of the action of gettin as tanknown and dispated. The pathogramse of his probabilities of the thrombianse production by the vessel salli Interesting bachtune experiments an regard to inhibition of transdates and resulting to the production of the production of

of sufficient calcium salts, has become incapable of assimilation and deposition of the calcium. Rachm and esteomalacia cannot be separated, though the pathogenesis of the latter is unknown.

Bern-berl is probably due to a durathous of the hosphorous metabolim of the har loaded to hosphorous metabolim of the har loaded to feeding on white nee Very hitle is how, a regard to the secretory function of the her Carbhydriest stimulates the most of all the load stuffs. Introduction of acids into the bowle or the stimulates of the most of all the load stuffs. Introduction of acids into the bowle or secretion of hole intensely. Cholemus us the probably to a disturbance of the hower incuton, as loom pitel breaking down of the abundance pitel breaking down of the abundance with the companies of the companies with history substances.

Status and infection are the principal cases of gall stone formation. Cholesterm salts are found if the cholesterm solvent—the bihary and salts—

are destroyed by bacterial processes or through autobytic processes in sterile bile.

The blochemic investigations of the reproductive organs has resulted in some interesting theoretic Early castration in man produces a persistence of the infantile type d layed calcification of the epiphyses, persistent thymus small thyroid and enlargement of the hypophysis Autoplastic tra hysis Autoplastic trans performed on rats. The internal secretion of the testicle is not elaborated by the radio-sensing parenchy matous cells but by the intersitial Leydig cells The vitality of the spermatogram decreased by physiologic salt solution and increased by alkalies, prostatic secretion spermatic find, and lood serum In women early castration causes a reversion to the beterosexual type Implantation of ovaries from another species has been successfully performed in guinea page rabbits, and in the human eing The internal secretion of the overy is likewis elaborated by the stroma cells of the follicles and of the corpus luteum Secretions of the male and female are not opposite in action as is seen from the parabious of mice of different sexes

The kadney function is to-day divided into the distinct parts filtration by the gloments incorred by the secretory tubules, and reabsorption by the order. The never methods of making functional tests of the kadney are practicated only in express the secretion of the product of the kadney are practical only in regression exerction, so distinguishment of the practical order of the kadney are practical only of the ceretion of foreign substances introduced. Currel and Courbring have successfully transplated the due to the ceretion of the ceretion of foreign substances introduced.

In the last two chapters the auth r datumes neoplature. The hatologe and genete separation of both of the prancipal groups cannot be adhered to say more. Mice carcinon it can be converted into surprise the carcinon it can be converted in exercised. The current section of radium may give a second to the control of the carcinon its can be converted in the carcino of the carcino of

Southard E E and Canavan M M Bacterial Invasion of Blood and Cerebrospinal Fluid by Way of Lymph Nodes; Findings in Lymph Nodes Draining the Feivis J Am M Air 1913 in 1316 By Sug Gyac & Obst

This is the fourth paper in a series on the same general subject The present paper is an endeavor to throw light on the curious fact observed by Gay and Southard that whereas 41 per cent of the bloods remain sterile with the methods used only 28 per cent of the cerebrospinal fluids remain sterile This work has nothing to do with the controversy between the intravitalists and the post mortal ists as to the meaning of the bacteria grown from the cadaver The authors are led to the conclusion that bacteria from whatever source might enter the blood infect the meninges die out in the blood and persist in the cerebrospinal fluid. It is also concerv able that organisms may in some way enter the cerebrospinal sheath from lymph vessels without passing through the blood. The solution of this problem is not undertaken in this work. The results are tabulated in four tables which show the source and the bacteria found. Nine cases are briefly re-Dorted

The authors reach the following conclusions

This continuation of their former work shows that the cerebrospinal fluid (72 per cent) still leads the heart's blood (68 per cent) in percentage of positive cultures (routine aerobic methods post mortem material)

mortem material)

2 Pelvic lymph nodes led both blood and cere

brospinal fluid (75 per cent)
3 This possibly is due to the great percentage of pelv c lesions in the present series (20 out of 25

per c resions in the present series (20 out of 25 lymph nodes)

A It is still uncertain whether these findings indicate attemortem or post mortem invasions. Of course an acute or chronic lesion may conceivably help the penetration of organisms from without

5 If as seems likely the invasions are intravital or agonal then it would appear that the pel ic lymph node are accustomed to harboring many broteria

6 Wh they this habit of receiving more organisms than othe nod is induces any superiority on the part of these nodes in respect to their power of d gestion they cannot say. If so a rationale for Fowler's drainage position might be imagined. Such a ration also wild be uperior t saying that the pel ic pert t neum is better full r than others or is differently constructed from perit neum elsewhere.

7 The pel i fixu ubject to acute and chron classate in the insame ppears to supply its lymph nodes with ery numerous bacteria. Some I these prophysics some doubles pathegers. They are liten found in the creationspinal fluid post more than the period of the period o

the pelvis surpasses the intestinal tract since the latter's lymph nodes happened to be studied during an epidemic of intestinal disease which provided an excess of secondary invaders

8 The hypothesis of a route of meningeal in vasion by way of the blood receives added support from this work although the possibility of more direct invasion must be considered.

EDWARD L CORNELL

# ELECTROLOGY

Clendening L.: The Use of the X Ray in the Diagnosis of Diseases of the Chest and Ab domen N 1 M J 1913, zevm 64, By Surg Gance & Obst

The author discusses the subject from the clinical viewpoint. His observations made with the help and guidance of Skinner were chiefly with the fluoroscope The fluoroscope has the advantage over the plate in that it permits examinations within a short time a portion of the field can be minutely examined with the closed shutter and movements can be observed. Aside from actual diagnosis the Y ray may teach the clinician certain phases of physiology and pathology such as the wave of the heart beat the action of the suricles the pulse of the sorta the movements of the diaphragm the position of the fluid in pleural effusion the action of the remains of the contracted lung in pneumo thorax the emptying of the bronchiectatic cavity on coughing the act of swallowing the penstalsis of the stomach the method the stomach employs of emptying its contents into the duodenum the physiology of vomiting the normal anatomy of the large intestine and the action of enemas. To a physical examination of the heart the \ ray can add little of real value in a given case. In the use of the \ ray in examination for pulmonary tuber culosis he distinguishes between early middle and late cases

In middle and late cases where the clinical diagnosis is usually already quite satisfactory the 1 ray gives the most data However even in the early cases with only slight infiltration limited to the apex or a small part of one lobe the fluoroscope may be of value Though no distr ct shadow be seen when the patient takes a deep breath the anices do not light up as in health the diaphragm on the affected side does n t move through so wide a space and the tuberculosis heart may be present that I to say the small heart hanging vertically in the chest and close t the midline. The X ray should always be used in obscure cases for one s ngle sign may throw the balance and it is always possible that the radiological examination may furnish that last tran Its negative evidence too is comforting where the physical examination reveals nothing

Pleural effusion ca ts a shadow on the screen and the pathological anat my of this condition has been illuminated by the studies of Engel an increased flow of blood for the organs mainly suffering from the infective process Accordingly, the rational treatment of pyrexis if it is considered necessary to treat it is to abstract heat by a process which will not diminish but even increase the cutaneous vasoconstriction. This condition is fulfilled by the cold bath Antipyretic drugs which act by cutaneous vasodilatation would seem for the same reason to be contra indicated

JAMES F CHURCHILL.

Cooley T B: The Treatment of Hæmorrhagic Disorders. J Am M Au 1913 by 1277 By Surg Gynec & Obst

Cooley reviewed the many theories as to the underlying etiology in the so-called hamorrhagic disorders He believes in view of the large volume of work along this line that temporary or permanent absence of some one of the clot elements is the usual cause of the persistence of hamorrhage in these con ditions and that different elements fail in different conditions if not in different cases of the same condition

He reaches the following conclusions

Blood therapy of some kind is the best remedy

we have for hamorrhagic conditions 2 In hamophilia blood-serum seems to have a

specific action so far as checking the hemorrhage is concerned It may be used as a prophylactic measure as well as to stop existing hemorrhage. Tresh human scrum probably is to be preferred
3 In purpura melena and other toxic conditions in which various blood elements have been shown to

be lacking none of the serums is always effective and there are good theoretical and clinical reasons for believing that whole blood should be preferred not only to stop the hemorrhage but for a possible curative effect on the underlying disease c ndition
4 Translusion is not really a difficult procedure It is deserving of extended trial not as a last resort

but as the first treatment in any of the hamorrhagic R W MCNEARY diseases of toxic nature

and L. and Watson F C. Embolism and Thrombosis of the Superior Mesenteric Artery A. Su g. Phila., 913 lm 459 By Surg. Gynec & Obst. Notand L. and Watson F C

The authors report a case of streducible inguinal bernia, which upon opening showed gangrene of eight icet of them. There was no strangulation at either ring. The gut was resected and a Murphy button anastomous performed The patient died four days later At autopsy it was found that union had not begun at the site of anastomosis On opening the heart, a vegetative thrombus the

size of a ten-cent piece was found situated just above the aortic valve

Arterioscierosis and endocarditis are cited as the ost common causes of embolism and thrombosis There is no characteristic symptom complex. Th diagnosis is rarely made bef re operation

The condition must be d fferentiated from intesta

nai obstruction perforations of gastric and deolesi ulcers acute cholecystitus appendicius associati with acute peritonitis angina sclerotica abdomin acute panereatitis lead or renal colic etc etc l' simulates intussusception

Intussusception occurs in children in 56 per cent of the cases while embolism and thromboss occur after middle life in cases presenting cardisc and vascular changes. The disease occurs in one of two ways It simulates (a) intestinal obstruction with or without general peritonitis (b) intestinal beaut

thage The authors quote Gerhardt who says Atyoni case should present the following as mutous A source for the embolus profuse intestinal hamor shage unaccounted for by a leason of the intestmal wall or obstruction of the portal circulation charac teristic paroxysmal pain tieus, and the presence of fluid in the abdomen rapid fall in temperature and a large palpable mass between the layers of the mesentery

The mortality in 47 reported operated case (Jackson Porter and Quinby) is 92 per cent According to Merkel over 150 cases ha e bers

reported fatal in nearly every instance LUCIA II LOSSET

# POISONS

Mayo C. If Local Foci of Infection Causes General Systemic Disturbances Med Both By Surg Gynec & Obst 10 3, XXXII 370

Our real knowledge of the specific organisms which cause the great majority of diseases covers a period of but few decades The fact that there were such was assumed long ago as evidenced by presentite medicine in vaccination against smallpos

There are three methods of bacterial invasion First by continuity of tissues as in the eye, ear and summers second by ingestion and third by direct entrance into tissues and lymphatic channels Looked at from every point of view the mouth may be said to be the greatest portal of entry for Piv genuc organisms Pyotrhora is responsible for the entrance of many infections in youth and as age advances it becomes a most serious menace. Some degree of bacteræma probably exists in all infections diseases the blood being the principal focus of infection with local manifestations in various organs mucosa or skin

Protozoa or intestinal parasites play their part in the exhaustion of the vital forces by the development of toxins which are the cause of many hire in

disease The total number of instances in which infection takes place by way of the skin is small as compared

to that of the alimentary canal

There probably is no area of equal size which is a greater menace to the health of children than the tonail an open lymphatic gland in the mouth the drainage of which passes through lymphatic chan-

nels into the venous syst m

Southard E E and Canavan M M : Bacterial Invasion of Blood and Cerebrospinal Fluid by Way of Lymph Nodes Findings in Lymph Nodes Draining the Pelvis. J Ass M Au 913 ln 1526 By Sun Gyac. & Obst

This is the fourth paper in a series on the same general subject. The present paper is an endeavor to throw light on the curious fact observed by Gay and Southard that, whereas 41 per cent of the bloods remain sterile with the methods used only 28 per cent of the cerebrospinal fluids remain sterile This work has nothing to do with the controversy between the intravitalists and the post mortal ists as to the meaning of the bacteria grown from the cadaver The authors are led to the conclusion that bacteria from whatever source might enter the blood inject the meninges die out in the blood and persist in the cerebrospinal fluid. It is also concerv able that organisms may in some way enter the cerebrospinal sheath from lymph vessels without passing through the blood. The solution of this problem is not undertaken in this work. The results are tabulated in four tables which show the source and the bacteria found. Nine cases are briefly reported

The authors reach the following conclusions r. This continuation of their former work shows that the cerebrospinal fluid (72 per cent) still leads the heart's blood (68 per cent) in percentage of positive cultures (routine aerobic methods post

mortem material)

2 Pelvic lymph nodes led both blood and cere

brospinal fluid (75 per cent)

3 This possibly is due to the great percentage of pelvic lesions in the present series (20 out of 25 cases 15 of the 20 showing organisms in the pelvic lymph nodes)

4 It is still uncertain whether these findings indicate ante mortem or post mortem invasions. Of course an acute or chronic lesion may conceivably help the penetration of organisms from without 5 If s seems likely the invasions are intravital.

or agonal then it would appear that the pel ic lymph nodes are accustomed to harboring many battern

6 Whether this halt: I freceiving more organisms than other nodes induces any appenently on the part of these nodes in respect to their power of digestion they cannot say II so a rationale for I owler a drainage position in gith be imagined. Such a rational as would be superior 1 saying that the pelvic per toneum: a butter filter than others or 1 differently constructed from pertoneum elsewhere.

? The pet is Iten subject to acute and chron classes in the manner persist to supply its lymph nodes with very numerous bactern. Some of these are suprophyter some doubless pathogens. They are off a found in the cerebrospin I fluid post more entire the search of the blood (descroyed?) are the search of the blood (descroyed?) are the search of the blood (descroyed?) and the search of the blood (descroyed?) are the search of the searc

the pelvis surpasses the intestinal tract since the latter's lymph nodes happened to be studied during an epidemic of intestinal disease which provided an excess of secondary invaders

8 The hypothesis of a route of meningeal in vasion by way of the blood receives added support from this work although the possibility of more direct invasion must be considered.

EDWARD L CORNELL

# ELECTROLOGY

Clendening, L.: The Use of the X Ray in the Diagnosis of Diseases of the Chest and Abdomen A Y M J 1013 xv1 664 By Surg Gynec & Obst

The author discusses the subject from the clinical viewpoint. His observations made with the help and guidance of Skinner were chiefly with the fluoroscope The fluoroscope has the advantage over the plate in that it permits examinations within a short time a portion of the field can be minutely examined with the closed shutter and movements can be observed. Aside from actual diagnosis the Y ray may teach the clinician certain phases of physiology and pathology such as the wave of the heart best the action of the auricles the pulse of the aorta the movements of the diaphragm the position of the fluid in pleural effusion the action of the remains of the contracted lung in pneumothorax the emptying of the bronchiectatic cavity on coughing the act of swallowing the peristalsis of the stomach the method the stomach employs of emptying its contents into the duodenum the physiology of comiting the normal anatomy of the large intestine and the action of enemas. To a physical examination of the heart the X ray can add httle of real value in a given case. In the use of the X ray in examination for pulmonary tuber culosis he distinguishes between early middle and late cases

In m ddle and late cases where the church dagoous is usually already quite satisfactory the \(^1\) ray gives the most data. However even in the early cases with only hight infiltrat on limited to the apix or a small part of one lobe the fluoro scope may be of value. The ugh no dust ct shadow be seen when the patient takes a deep breath the apixes of not light up as in health the daphragam apixes do not light up as in health the daphragam space and the tuberculoses heart may be so wider space and the tuberculoses heart may be settledly in the heat and close to the midline. The \(^1\) ray should alway be used in bacute cases for one angle is go may throw the balance and it is always nomble that the radiological examination may lorish that last six as. It is gain the content of the content of

Pleural effusion cats a hadow on the screen and the pathological anatom) of this condition has been illuminated by the studies of Engel bath and Carman In lung abscess the \( \lambda\)-ray is of first rate importance. In every case of continued fever after the crass of a lobar pneumons where the diagnosis of pus in the pleural sac is not readily established a radiograph should be taken. This will show the cases of interlobular emoyems ob will show the cases of interlobular emoyems of

scure lung abscess and delayed resolution By a single extination of the stomach after a blamuth meal we can learn the shape and sure of the stomach the tome of the gastine muscle, the rate of emptying the stomach whether there is stasio or not whether there is any growth into the jumes of the stomach such as carcanoma. Whether or not there is any construction of the lumes houghast stomach In early simple gastrie ulers the X-ray is merely an adjunct to a well taken clinical hustory. Chronic uler may show steenous. Perforating uler may show the characteristic diverticulum

JUM Arnent Minish

Czerny V: The Non Operative Treatment of Cancer (Zur nikhtoperat en Behandlung des Krebses) Verhault d Gentlich deutschen Astaforsch w Arzie 1913 n. part 2 25 By Zentralist f d ges Chr u f Grenzgeh

The author describes cases that were freed from malignant new growths by non-operative means A woman operated upon six times for sarcoma of both auperior maxille was energetically treated with röntgen rays Eight years later she was still free from recurrences The results obtained in three cases of epithelioma prove that superficial cancers of the skin can be cured by mesothorium radium and rontgen rays A carcinoma of the lower lip an epithelioma of the right temporal region and a carcinoms of the left temporal region were treated by electric-light rays. A female patient with a cancerous growth which hung from the tip of the nose and made the ingestion of food almost impossible and who had also a rodent ulcer at the outer angle of the nose was treated with a Forest needle and mesothorium with such good results that it was

possible to leave her to the care of her family again.
The lipus caracinomats were cared by fulgata ton and another by the rontgen rays. An appear early parconatous tumor of the parotid region treated twice by radical operation recurred. It was crued by practicated of suitarians into the tumor and gluttal vegion. It seems however that lower that the was not defaulted peculided. A primary round celled

sarcoma in the region of the fachyroal glast we benefited by advirsm and routger rays. In the case the glands on both aides of the neck went he size of a pigeon egg. The glands decreased in sea and the primary itumor was operated upon by the osteoplastic method. The procrisions of the retail recurred and the treatment was supplemented by the impection of cholon with such good results that is

complete cure as expected An apparently inoperable involvement of the lymph glands after sarroms was cured by thorous \( \) injections into the glands, followed by treatment with routgen ravs The patient has been free from signs of recurrence for six months An epithelions nuche was removed from one patient with a Forest electrocaustic needle and a perfect healing fol lowed Two cancers of the breast adherent to the ribs were healed by electric beht rays and juleur tion. An advanced recurrence of inocerable type in a carcinoma of the stomach was treated by röntgen rays and has remained healed for two years This case the author claims is the best evidence be can offer in favor of the healing of cancer by mean of rontgen rays applied with sufficient intensity Another case shows with what good results an almost inoperable gastric carcinoma at the cardia can be treated by the electrocautery and rontgen 1275. With a carcinoma of the scrotum all operative pro cedures had failed Curetting followed by fulguration succeeded in producing a flat scar but aly ax weeks later local recurrences and internal metastass took place A carcinoms of the abdominal wall following an operation for carcinoma of the spient flexure was removed with a Forest needle and heal ing followed Death occurred after several months bowes er from metastases in the li er Acylindrical celled curemoma of the rectum which on account of its extent could not be completely removed by operation was treated after excision by fulguration. At the end of two and one half years the patient was still free from recurrences

Mesothonum and thorum '\ when used in cases of ulcerative cancers often form gloot cases breaking down and a flattening of the gramitation. The action of borchola and selenvigation of tumors and testicles of animals is discussed. In the case of tumors, byperamia and hemorrhage begin the process of resorption. The spermatons air destroyed at the point at which he chain as impacted.

# GYNECOLOGY

# UTERUS

Berczeller I A Palliat ve Treatment of Inoperable Cervix Carcinoma with Powdered Sugar (P liatue B handlung inoperable Portucar comme mit Zuckersta b) Ze t albi f Gynali 1913 xxxvi. 852

By Zentralbl f d ges Gyn k u Geburtsh s d Grenzgeb

The author considers the local use of powdered sugar a suitable and convenient method of palliative treatment. The foul older is decreased the lochia diminished hismorrhage lessened and the appear ance of the carcinomatous area is improved. The patient steaching sains strength of the patient steaching sains strength of the carvix is brought into view by means of a speculum and sponged dry. The speculum is filled partly with powdered sugar and an isodoform tampon is inserted. This is reperted laily or itse to three times a neck.

Ries E. Theoretical and Practical Foundations of a Radical Operation for Carcinoma of th Cervix Uterl J im II 122 1913 km 1266

By S rg Gynec & Olst The title explains the contents of the paper Our knowledge of cancer is built on clinical and patholog ical observations Cancer in its beginning is a purely local disease It invades the host in two ways first by continuity and secondly by metastases Con tiguous growths invade lymph-channels early and regularly the blood circulation rather incidentally and less frequently The primary tumors and the metastases degenerate and become infected long as the can er is confined to the primary focus the removal of a block of tissue which contains all of the cancer eliminates the latter If colonies have become est bl hed the removal mass ought to com price the original tum r a 1 all the metastases and all terve gt ue as well in other words a prerequisite of a radical carcinoma operation is that of a c t nou r ther than a non continuous dissec the dissection of the carcinoma block in carcinoms f th bre t is the best example of cond sect nd th results are very fur Inherent a la wors r l in c neer fother parts of the bod I m t the mmediate ucc ss of the tho gh continu us hissection might mpro e the remote results. The accessors ri k for in tane in the ervise er are the a rethetic and infect on arri I in from outside but the grest accessory & moma fth cers a is th t of f cted p m ry tumor b ought g f the cersa or from crumbling seps from th hout by te lymph nodes r from I mph vessels n the eighbor he I Ih herent ri k are hamorrhage injury

to the uterus and production of large wound in the connective tissue. Another weak point in our cervical cancer operation is the unavoidable breach in the principle of continuous dissection. To avoid the latter it would be necessary to include part of the ureters and also the pelvic draphragm and the paracologum But this means greater demands on the tolerance of the patient. However, at present we have no reliable means of determining beforehand the limits of this tolerance in individual cases Operative mortality and remote results therefore have the tendency to show an inverted ratio The better the surgeon a technique the greater things he may dare. In conclusion it is to-day wrong and unscientific to withhold the chance of operation from any patient with cancer of the cervix and this in spite of all risks which the operation involves HENRY SCIDELLS

Herzfeld B A Contribution to the Statistics of Carcinoma of the Uterus (E B trag zur Statistik des Carcinoma ten) Petersb med Zisch 1913 xxx 167

By Zantabl (d ges Gyala u Geburth s d Grengeb Of pays fremale out patients treated during ten years, 193 had cancer of the uterus Of these yr or 3? a per cent were still operable and of or 62 8 per cent inoperable. The small number of operable cases Herrickd attributes to the delay of the patients in seeking medical at d and he hopes that an improveme t will occur as a result of the propaganda instituted by the Baltic Physicians Congress 1 has occurred since this compress the operation of the sec-

Broun L Cancer of th Uterus; Importance of Fa ly D agnosis N 5 St J Med 0 3 x
By Surg Gynec & Obst

The author quotes Frederick L Hoffman stat trican of the Fruderick Insurance Company of America. Hoffman states that cancer is becoming more prevalent in the United States every year and that non-its derift ill is greater than that of that non-its derift ill is greater than that of the states of the states every year and that non-its derift ill is greater than that of the states of the state

Cert in occupations especially those in which persons to appeal to coal soot and products of coal mbut to seem to pred pose to cancer

The author quotes Cullen Winter and Wertheim as regards extension of cancer from the uterus and discusses Schauta s extensive vaginal operations

Werthern a abdominal operation is also taken up Broun believes that Wertheim's vaginal and parametric clamps are of value in avoiding a possible sepsis or venous bleeding. I rom the statistics of Wertherm 19 5 per cent of all cases of cancer of the uterus are cured of Schauta 16 1 per cent while the author states that a simple hysterectomy cures only about 8 per cent

I aure a classification of uterine cancer is accepted and the author concludes that by education of the people, early diagnosis will enable more lives to be saved by operation FUGENE CARY

Weibel W: The Clinical Positi n of Carcinoma

of the Corpus Uteri (Die klauche Stellung des Carcinoma corpon uten) Arth f Gynth 1913

By Lentralbi, f d. ees Gynak u. Gebortsh u. d Grenzeeb

Carcinoma of the body of the uterus is relatively rare At the Werthelm Clinic only 67 cases have been operated upon in 14 years two cases were inonerable and one refused the operation That makes a total of 70 cases as compared to 1500 cervical cancers, 714 of which could be operated upon The ratio of cancers of the body to those of the cervix is therefore 5 100 and if only the operable cases are considered 9 5 100 Among the symptoms harmorrhage takes the first rank. The primary mortality was 1034 per cent Twenty four per cent had never been pregnant There appears to be a large number of multipara among the cases of cancers of the body The most essential difference between cancers of the cervix and the body lies in the fact that in carcin ma of the body the parametrium is involved in only 16 per cent whereas in cervical carcinoma it is involved in 55 per cent Recurrences took place in so of the 67 cases of cancer of the body and these were usually local Permanent cures sarred from 51 2 per cent to 60 per cent The radical abdominal operation is to be preferred

Candels y Pis M: Surgical Treatment of Uterina Cancer (Ch. unguche Behandlung des Uteruskrebses) Criss seid, Valenci 913 xx 97 B) Zentralbi i d ges. Gynak Geburish d Grenzgeb

Wertheim's operation does not fulfill all the re-quirements of the surgery of uterioe cancer The complexity of the problem and the lack of positive indications as a basis for the determination of operability render the collection of statistics to difficult that the requirements of critical investigators are not satisfied. The radical operation involving the cleaning out of the pelvis is of pro phylactic importance only in cases where the infiltration of the gland nodes and cellular tissue is not yet cancerous. Under these circumstances the total extirpat on of the uterus with the vaginal vault e ther abdoms ally or vaginally may give

just as good results w thout the added danger of the extended operation In cases at the limit of opera bility an extended Freund's operation with the removal of the parametrum no wider than neces-sary for the enucleation of the uterus from its normal attachments and of the vaginal vault by the ther mocautery and the use of Wertherm's forcers as acceptable. The secret of a cure is an early diagnosis, more so in cancer than in any other disease. A general international sote would find the followers of Mertheims operation in the minority Phy sicians are requested to join the movement which originated in Germany to improve the curability by early diagnosis

Von Lingen L. Gient Myomatous Cysts (Zu Lasuistik der Resenmyomeysten) Zeutrald f

Gyalf , 10 3 Exevu, 2100 By Zentralbi f d.ges Gyalk u Geb rish a d Grenzeb

The case was one of grant myomatous cyst in which a diagnosis of an oversan cyst had been made. The weight of the tumor was 4514 pounds, including the costic fluid It originated from the postenor wall of the uterus the anterior wall was free from the tumor in plastic manner

The author points to the ranty of these tumors According to the general these tumors are divided into (1) lymphangiectatic (2) degenerative due to a necrobiotic process in a solid tumor (3) solid tumors originating according to you Recklinghausen. in remains of the wolftian duct Microscopically this tumor proved to be lymphangiectatic in ongu-

Thomson J W Tuberculosis of the Uterus-Lened Lond 913 classes 000 By Surg Gypec & Obst

The author reports a case of tuberculous in the body of the uterus in a girl aged 20 At the age of 13 she was operated on for dysmenorrhors. Her appendix was removed at 18. Her main symptom was frequent urgent, and painful micturition A large amount of pus containing colon bacilli was found in the urine but no tubercle bacille Both ureters were thickened the right more markedly A communication was found to exist between the bladder and uterus On separating the uterus from the rectum an aperture one such so length was left The lumen of the rectum was in the rectum narrowed as in Jellet's case. There was a serous I ne of demarcation between the healthy cervix and the body of the uterus. The histological study by Stewart showed the typical lesions of tuberculosis

Müller The Findings in Recurrent Harmon shages frer Röntgenization (Befund bet Res di bi tungen nach Röntgenbestrahung) Monaiphr f Geburtsh Gynik 1913 xxxvi 397 By Zentralbi f d ges. Gynik u Geburtsh a. d Grenngeb

Hemorrhages reappeared in a my omatous patient

after a menopause of seven months Bleeding con tinued in spate of ar ther application of the X ray At the patient a request operation was performed Two intransural myomats a zero found in the uterus and the ovaries showed senile change Microscopic examination revealed myomatous usue. a normal endometrium and atropine ovariant tissue. The cause of the recurrence as the presence of a rem nant of functionating ovariant tissue hence a continuation of the rontgenation would have led to the desared cure Miller recommends therefore that two or three treatments be given after the cessal tion of the hemorrhages

Sanes: Is Membranous Dysmenorrhom Caused by Endometritis? J Am M Ats 19 3 in, 1433 By Surg Gynec & Obst

Sanes uses the term menstrual membrane in stead of membranous dysmenorthers since the passing of membranes during menstruation is not always accompanied by pain. It is a much more common condition than is generally supposed

Shreds and epithelium are invariably found in clots Desquamation of the vagina and even skin have also been observed by some authors during

menstruation

Basing his descriptions of the endometrium on the authoritative statements of Milnes Marshall, Heape Leopold, Westpholen Young Hitchman Meerdervoort and many others he classifies the histology of the normal endometrium as follows

z Quiescent stage During which the epithelial cells laiming the surface of the mucosa and glands show considerable difference in their shape size and nucle. The glands supers straight or slightly tortuous in regular and almost parallel rows. Each gland is surrounded by a network of spindle shaped connective tissue elements and outside of it by the stroma. The stroma appears as a soft protoplasmic mass, imperfectly differentiated into cells. The blood supply of the superficial surface of the mucos consists of capillary tracts running parallel to the surface epithelium.

2 Premenatrual or constructive stage Scrous infiltration of the upper layer of the mucosa Round cell infiltration and capillary congestion in the stroms. The glands become very much dilated and more tortuous their lumina are filled with mucus, and in some places also with leucocytes and red cells. These glands are found only in the deep layers of the mucosa. The superficial layer is poor any layers of the mucosa. The superficial representation and upper compact one and a loner spongy.

3 Destructiv or menstrual stage Arternal congestion leads to the dilatation of the superficial capillary tracts Vascular pressure is mercased Vilgration of the red cells occurs, and the flow is established. The m cosa is destroyed to a vanous degree and also carried off in a shired and débris. The denud tion, according to most authorities is due to a mechanical cause

The extravasation and accumulation of blood in the spong, layer of the endometrium loosens and

separates this lower layer from the upper compact and more resistant one which is then expelled under the influence of uterine contractions during men struation. The menstrual membrane presents a varied appearance both grossly and microscopically and this sot only in different persons and at different periods but in the same person during the same period. Generally, the picture is that of the degenerative changes occurring in the upper layer of the endometrum during the present their stage. As to the pathology at present there are no chinical or microscopic vendences to show that the exclusion of the endometrium or to any discase in the adners which are found normal in many cases of mem.

branous dysmenorthes

Neither is sterility a necessary sequel All these conditions may be associated with menstrual mem branes, but are neither the cause nor result of them It is further shown that certain species of female monkeys whose endometrium undergoes similar changes during menstruation to those of the human female, expel uterine membranes at each menstrual period. If it is physiological in one case, why not in the other? As a theory for the cause of greater denudation in some persons than in others the author suggests that the action of the ovarian hormone which normally produces menstruction is more intense in some cases than in others or that the susceptibility of that individual is greater thus bringing about more destruction of the endometrial mucous membrane in these cases

L ROBIVE GOLDSMITH

Watkins T J Infantile Type of Uterus with Dysmenorrhosa Surg Gymer & Obst 1913 xvu 461 By Surg Gyner & Obst

The author gives the result in the treatment of sixty severe cases which required hospital attention The early ones were treated by using tents repeated ly until free dilatation was obtained The later ones were treated with an intra-uterine stem which is a salver tube made in various sizes. This is felt to be better than the tent as its use is attended by less danger of infection and can be worn for a longer time The tube is inserted under strict antiseptic precautions and is worn from one to three months It is sutured in place The principle of the treatment is that the tube stimulates uterine development There were sixty cases studied but in only thirty-one was it possible to follow the cases up to the present tune Of the 31 cases fifteen were cured ten improved and six not benefited

Martin F H: Prolapse of the Uterus. J Am M As: 19 3 In 1246 By Sug Gynec. & Obst. Martin recommends his modification of the Dubrison Walkins-Wertheim auterus transcription

Dührssen Watkins-Wertheim anterior transposition operation and a restoration of the levator am muscles as the most modern and satisfactory for descent of the uterus. It is an ideal procedure for women past the child bearing period. In child

bearing women if justifiable by the seventy of the cond tion he renders the patient stenie by interrupt ing the tubes His modification con 1 to in dissecting free the vesico-uterine ligament. The bladder is care fully elevated to the level of the ton of the fundus of the uterus. The ten ical ends of these hands are se cred appropriately hortened crossed upon each other to make a upport for the blad he and the ends are securely transplanted into the fundus of the uterus just in front of the crest. The anterior van inal wall is closed. Mer the funder has been deharred he in pects the sacro uterine ligaments A pair of 8 meh arters forceps are thrust through the internal os and from a noint in front of the cervix from within the longitu linal saginal inci ion into the cul de sac of Douglas The sacro uterme f ld is grasped at a point about one third of the distance from its utenne en I an I the fold is drawn through the route of the forcers on either aide of the certix The latter is pushed upward and backward and the folds of the ligament are secured firmly in front of the cervix The fun lu is then fixed by the veucouterine ligaments as beretofore described. The leas tor ani muscle suture completes the operation Mar tin avoids amputation of the cervix wherever possi ble He desires to have the cervix riding well back of the recon tructed permeum to aid in presenting the uterus naralleling the vamas

HEART SCHMITZ

Montgomery I' E.: Vagino-Uterine Prolapse and its iffective Treatment J Am II As 1913 1 1215 By 5 rg Gyncc & Obst

The diseased and d storted uterus is removed and prolapse of the blad for an I rectum is presented by suspending these organs from the upper surface of the broad humanent. The possibility of a cystocric following the operation to obvisted by the interposition of the levator and muscles. Montgomery claim that by this procedure the normal length of the vagina is preserved Hz as Scinitz

knorsberg, I and Seedorff M Genital Pro-lapse and b pecially the Results of the Treatment (Der Gentalpolaps in becondere Röcksethtsahme and das Resultst der Reh adlung) I reasund d Verd di beren kopenh 013 Il) Zentralbi I d ges Gynäk u Geburish a.d. Grenageb

I ollowing a short historical introductio in which the authors in the main accept the Halban and Tandler theory of general prolapse although they like Martin attach more ugmicance to the con nectine t sue than do the former they present the rown material Two hundred and a nety-nine patients were operated upon bet een 1897 and 1912 It was possible to det ranne the condition of 292 of these Three of these died later. The others are divided seconding to the method of operation as follows Schauta lientheim operation 44 times with 7 part il recurrences haginal fixation and pl stic operation 7 t mes with no recurrence

colporrhaphy and colpoperintorrhaphy or antenur colporthaphy 126 times with 17 recurrences colorperincorrhaphy (incomplete rupture) 54 trees with a recurrences Tail 8 or Walkins' method for complete rupture 27 times with one complete failute and 3 cases of partial incontinence vagual plastic operation and antefixation by languages 20 limes with one recurrence and extirmation of the uterus and plastic operation on the vagina is times with a recurrences

With the Schauta Wertheim operation no recur rence with cystocele took place in all cases of fathers cervical hypertrophy took place. In regard to the technique employed the authors since 1907 per-formed an extens ve separation of the bladder and a high colpoperincorrhaphy with suture of the leaster The Ol h usen method of sentrofization was employed almost exclusivy 5 \ GARRELTOTT

Gammeltoft Results of the Treatment of Genital Prolapse in th Gynecological Deput ment of the Obstetrical Hospital and in the Gynecological Department of the Reich flor pital (Resultate der Rehandlung des Centul pro lapses un der gynkkologischen Abteilung der Entbud u geanstalt und der gynäk benechen Abteilung des Reichshospetals) i ersommt d Aord cher i ein 5, konenh 19 3

By Zentralbi f d ges Gyntk u Geburtch a d Grennich

The material consists of 150 cases operated upon between 1900 and 1912 Six patients died as a result of the operation The operative mortality therefore was a per cent. One hundred and that's two nationts were re-examined of these a died later the result of the operation not being known Of the remaining 127 there to \$1 completely successful 17 partially successful cases and 24 recur repres In 3 cases the operation was successf i but a certifical hypertrophy developed later. The 17 partially uccessful cases are those in which the pats his ha e only sight symptoms and those in which a s I jective cure resulted but in which the Objective find ngs w re only pritially successful Of the recurren es 13 w reauterior colporabables and colpoperineorrhaphies 4 cases operated pos by Westermark method 3 by S hauts Wert heim and 2 with a x ginal plastic operation and an Olshausen's fix tio The Schauta Werthern operation was performed 5 times in 2 with good result and in the thers with recurrences Wester ma L lateral loorth phy was performed in times

Of the Brase re-exami ed 4 were successful and 4 had recurrences. The poor esults were probably due to the fact that the technique u ed was wrong until Westermark himself demonstrated it it the cl ic in Augu t 9 2 Twenty cases I displacer at I th uterus were treated by pl six operations a the v g na Ol these only h d recurrences Both wer fixed by Olshausen's method. In those ated upon by Dolens or tents who were thods no recurrences resulted \luxander \dama For the abdomy I fixation methods therefor there nere only 10 per cent of recurrences whereas for the vaginal plastic methods alone there were 20 per cent Eleven of the patients operated upon were delivered of full term children Two were delivered with forceps and had recurrences Of the remaining o one had the sensation of prolapse but no recur rence, and one had a recurrence

In regard to the technique the author recommends careful separation and lowering of the bladder In addition a high colpoperineorrhaphy is advised. The levators should not be exposed but should be grasped with deep carrying sutures Since ventrofixation or ventrosuspension has been performed more fre quently the results have improved among the last so cases there were only 9 per cent recurrences Extended colporrhaphy combined with abdominal fixation or suspension seems to offer the best results

# Möller O: Results of Operations for Genital Prolapse (Res Itate von Operationen wegen Gen tal prolaps) Versamel d Vord chie Ver he Kopenh

9 3 By Zentraibl f d ges Gynal, u Geburtsh s d Grenzgeb

The material comprises 260 patients treated from 1894 to 1912 It was possible to trace 220 of these pat ents Since 1890 the methods of Simon Hegar and Tart have been employed and since 1909 suture of the levator am and the Schauta Wertherm opera tion in some cases Double plastic operation on the vaging was employed in 124 cases, with recurrence in 14 5 per cent a marked improvement is noticeable since the levator an auture has been performed Colpopermeorrhaphy was performed in 43 cases with recurrences in 23 I per cent These poor results are probably due to the fact that formerly not enough attention was paid to slight degrees of descent of the anterior wall and beginning cystoceles

The Schautz-Wertheim peration was performed in 25 cases in only 14 of these has sufficient time elapsed for observation and in one of them recur rence took place the patient being 71 years old and the uterus atrophic \entrofixation accompanied by plast c operation on the vagins was employed in 15 cases but wa unsatisfactory If the Schauta Werthern operation can be performed it should be gt en the pref rene Th procedure is less dangerous and the t y in the hospital considerably less. The Is t operation for ompl te rupture was performed times Four of these were improved 12 cured and add n t return for re examination

S H GANNELTOFT

Polak J O A Study of th Lnd Results of the Baldy Webster Operation JAm VA

4.10

B) Surg Gynet & Ob! Polsk discusses the principles of uten e support s d th actio f it sui porting ligaments describes the a tion I the Baldy Webster operation a d ts flect on the portion I the ovaries and demon trat his technique f r th operation. He has tudic the records of 400 operations performed in his clinic from January 1908 to Ja 1277 19 3

and renders the following summary 24 patients have been lost track of leaving 376 for analysis Two hundred and two or more than 50 per cent have perfect pelves, the uterus is in normal position and free from adnexal or parametrial inflammations. One hundred and sixty of this number have com Thirty nine plete relief of all pelvic symptoms complain of pelvic pain burning sensation over the lower abdomen and menstrual pain. Three have died from causes independent of the operation before or soon after leaving the hospital Of the remaining 174 fourteen have had secondary opera tions for pelvic or abdominal conditions The intraabdominal pathological conditions in each have been carefully studied. These have shown (1) un equal development of the bgaments with lateral version of the uterus (2) enlarged prolansed ova ries due to clongation of the utero-ovarian ligament and adhesions (3) adhesions of the sigmoid to the ligamentous loop (4) cedema of the round ligaments from constriction with subsequent adhesions to intestines (5) if the uterus is large and sinks in the intestinal loops the ovaries are thrown unward and inward and become adherent to one another behind the uterus forming a sensitive mass. These findings have been constant in the reopened cases. In 32 patients the uterus had relapsed and was found retroverted and prolapsed carrying the ovaries with it Thirty are wearing pessaries Eighteen are unimproved. Ten have lateral version and pain in the side toward which the uterus is drawn Six teen have proispeed and cystic ovaries. Two have ovaries lying anterior to the broad ligament. Twenty six have thrombosis of the pelvic veins Tuenty have had children subsequent to the operation Twenty two have aborted In all 42 pregnancies occurred from which observations could be made No complication of labor has been recorded only one delivery has required forceps Fourteen of the pregnant women have had great pain and discomfort during the first trimester

only four relapses have followed labor The operation should not be selected for heavy uters with the cervix in the axis of the vagina It is successful when the uterus is small the cervix points backward and the ligaments are equally developed

HENRY SCHWITZ

Childe C. P. Suggestion to th Technique and P rformance by a New Viethod of Werthelm a Abdominal Panhysterectomy Proc Rey Soc Med 913 vi Obst & 63 ec Sect 339 By Surg Gynec & Obst

The autho po ats out that the pat ents operated n by the Werthern method re often lost through infection Their resistance is lowered from the d case two extent e wound are exposed to inf ction the privic wound is open to the external u face by way f the vaginal can'l Retzius s space i freely opened and a dead pare left after the operation all of which fa ors infection

The patient anasthetized fo the operation is

placed in the hthotomy position and all the soft growth removed with selesors and sharp spoon. The Tan surface left is thoroughly canterized with Paquein a cautery The vagina is then scrupulously queeq and bajuted with loque | Finally the Asking uricu and painteu with jodine givenity in evapina i lightly packed with dry sterile gauze one end of which is left hanging out of the vagina. This gruze

is removed just before opening the vagina The author emphasizes the following points in

the operative technique Secure perfect barmostasis if possible 2 Leave no foreign bodies such as ligatures in the

He employs only four salk ligatures one for each wound ovarian and one for each uterine artery For the rest he depends upon the use of a heavy crushing clamp and the cautery When hamostasu is not complete gause may be packed in the pelvis and

# left for 24 bours. ADNEXAL AND PERIUTERINE CONDITIONS

Keep C.: Two Cases of Solid Pedunculated Papil ons a resease of construction of the construct

The author report two cases with photographs of the perimens and microscopical sections of the The chief points of interest in these cases seem to be (1) The bundles of long way, fibrous tissue composing the stroma which in no way re sembles the short fibres of oversan stroma and semules the short nures of ovarian stroma and ovarian fibromata (2) The attachment of each turner by a distinct pedicle to an otherwise apparent

The author could find no reference a the l terature ly healthy and active ovary to any ovarian tumor possessing these character istics lie beheves that the tumors arise from an issues are non-section, the tumors areas from sure embryological area such as the Vulleran duct or the pronephros The Pathological Committee re the protect of the have examined the specimens and sections and agree with the description given by the author. We are of the opinion that the growth has originated in the ovary and is not of Mollenan

inflammation of the Adness and rano i innamination of the Adness and heurosis from a Surgical Standpoint (Adnes OTISTO Neurosia irom a vurgicas vianapoint (Annex entended au und Acurose vom our l'en Stant publi) S ps selé 9 i 93 publi) S ps selé 9 i 93 ly Zentralbi é des Gynàk (seburteh d'Grencerb lizenno P

To secure pouts e results in the treatment of

chrone disease of the aine B er mant general and local examination is necessary. The on lition and local examination is necessary and on mode influ of the nervous system are so if an in one inno ence on the functions of the gential, a tem that these ence on the number of the patient are oft subjected to unnecessary local treatment. On the ther hand unnecessary norm treatment. On the tree mand the bad influence to which uch neriou ( aditions are exposed by cha ges which even on bimanual are exposed by the appare timports c must not palpation are of little appare timports c must not purparious are or mark appears a uniqueria c muse nor be overlooked. A co dition which is t times

important is the scierotic or any with its character interpolation of the participation of an unknown but not bacteriological origin and which shows on palpation a slightly enlarged not adherent firm organ with small Costs on its surface. These findings are sig nificant in the interpretation of local disturbances as causes of general ymptoms. An operation is justifiable in all such cases if the uterine treatment is unsuccessful

Hailart J: So-called Salpingitis Isthmica hodora (Heiterer Bening ur sogenamien Sal-pingutis isthmica nodosa) Zische J Geberitä s. Gyask, 19 3 Izzu 77 By Zentraibl. f d ges Gyask u Ceburtsh s d Grenzgeb

The patient a nullipara 51 years old died from and patient a numbers 3+ years off one and strom embolism of the pulmouary artery following throm bosts of the left femoral vein A spindle-shaped mass it mm long 6 to 7 mm thick of firm con istency was found in the left tube close to its insertion into the iterus. A cyst was found in the right over; and numerous subscrous, submucous and intramural myomata were detected in the uterus. It was suspected that the tumors were multiple adenomyomata of the uterus according multiple adenomyomata of the uterus according to ton Reckinghaueen. The tumors were mucroscopically examined in serial sections The uterine tumors were myomatous and not adenonyomatous tumors were myomatous and me memory was the sa there were no traces of conthelial inclu ions. The tumor of the tube however presented in its center an adenostromy ome or salpingitie is themes nodosa.

It consisted of muscle and connective trans fibers running in all directions, within which were embedded numerous arteries and ems and epithelial forma tions of many different varieties structures were disseminated downward into the intersuital portion f the tube and uterine muscula ture and also into the loose tissue of the mesosalping at the isthmic portion of the tube. There was no connection between the publical at unnor cells and the nurcoss of the tube. The publical tubes extended nurcoss of the tube. over Muller duct into the wolffian body Therefore the suspicion that the cutthelium organized from the mesonephros was suggested Remnants of the wolfi n body were found in both overes or the world in body were round in both orange of some and still existing inflammatory processes round-cell unifiration and abooes were lund in the tube. Therefore the theory of meso nephritic origin had t be rejected in is or of a ocuments origin and to be rejected in its origin the tubal wall caused a displacement of the tuba nucosa into the external layers of the wall d placed mucous membrane elements continued to probler t nd led to the formation of the tumor

Somers G B and Blaisdell F E Th Anst ners us and measures from Anathrony only and Surplical Utility of Sacro-Uterin

Ligament

JAm M Au 9 3 b., 47

Ugament

By Surg Cynec & Obst.

I has a study of the structure and function of the to uteme ligaments based on the comparat ve anatomy of gumea pigs Belgian hares cats dogs and monkeys and the application of a surgical shortening of the same for the correction of retroflexed uten. The sacro utenne ligaments are pentoneal folds containing muscle and fibro elastic tissue These are intimately related so that it is difficult to decide which hould be included in and which excluded from the true ligaments These structures in the lower animals are not however sacro uterme but recto vaginal The peritoneum forming the folds is much thicker than the surround ing pentoneum. The hypertrophy is confined to the fibrous layer Within the stratum fibrosum and therefore distinctly within the peritonial layer were found a number of small fascicult of unstriped muscle fibers derived from the myometrium muscle fibers pass to the fold attached to the vagina and on backward toward the rectum always within the fibrous layer of the peritoneum This observa tion is thought to be new and it is suggested that this muscle be called the true recto uterine muscle This arrangement is not only found in lower animals but in the human female but here the structures are not recto-vacual but sacrouterine elastic tissue is contained within the parametrium just beneath the plica sacro-utering. It is a con-densation zone of the fascia endopelying. The course of the fibres is from the cervix toward the presacral fascia. This is the sacro uterine ligament which may be considered the fibro elastic suspenso num of the uterus With these ligaments are inter nungled muscle fibres derived from the uterus When these latter contract they pull on the sacro uterine ligament 1 e the fibro elastic network and raise the uterus It should be termed the levator uten muscle to distinguish it from the recto uterine the fibro elastic network within the pentoneal fold it was found that a distinct mass of fibers ran from the anterior two thirds of the sacro uterine fold down to the vault of the vagina The function of these fibers is to sustain the vault like character of the posterior and lateral fornices

Conclusions The true sacro-uterine ligament is quite district from the peritoneal folds. In func tion it is inseparably connected with the perstoneal folds and the muscle fascicult The musculo fibrinous character of the perstones f lds renders them chiefly supporting The fibro elastic structures preserve the normal position of the uterus and vaginal vault The levator uters muscle raises the uterus in response to reflex stimult. The surgical adaptability of these structures is assured by their accessibility by their bgsmentous character and by their lifting the cervix on being shortened The operation is performed by exposing the insertions of the ligaments by a circular on around the cervit. The ligaments are iso lated from the surround ng structures by blunt dis section The shortening s performed by doubling the ligaments or by sew ng them to each other or by separating them from their attachment a d sewing them to a new portio II NEY SCIENTIZ

KYTERNAL GENITALIA

Traumatic Rupture of Vagina with Voget F Prolapse of the Small Intestines (Traumausche Scheidenrupturmit Dünndarmvorfall) München med

Wchnicky 1923 lz, 1326 By Zentralbl i d ges Gyndk u Geburtsh s d Grenzgeb The patient 68 years old had had a prolapse since the first labor which finally increased to the size

of two fists She suffered a severe injury to the prolapse which was followed by a protrusion of the bowels causing severe pain. The patient wrapped the bowels in pieces of paper which she found lying about When an examination was made an hour later the patient was in a state of shock the pulse was 115 the abdominal wall retracted and a prolanse the size of two fists was found studded with decubital ulcers. On the posterior surface of the prolapse a laceration 4 cm long was seen from which a mass of ileum protruded which was the size of a man s head The adherent pieces of paper were removed by normal saline irrigation bowel was replaced without pain and without angesthesia and with the patient in the knee-elbow position The uterus and adnexa also were replaced. The true pelvis was drained and the vagina tam poned A profuse evacuation of the bowel occurred during the following night Besides tympany naucea vomiting on the fourth day and fever up to 101 F no other signs of peritoneal irritation oc curred The rupture healed within four weeks

Ludwig F Uretero-Vesico Vaginal Fistula After a Criminal Abortion (Uret rblasenscheidenfistel nach kriminellem Abort) Zisch f urel Chir 1913 By Zentralbi f d ges Gypāk u G burtsh s d Grenzgeh

The author describes a uretero vesico vaginal fistula caused by a bouge passed violently into the vagina several times for the purpose of producing an abortion A small vesico vaginal fistula was produced and likewise one from the ureter to the bladder which was demonstrated cystoscopically The vesico vaginal fistula was closed by an abdom inal operation with satisfactory results for three months, but as a result of trauma dribbling of urine recommenced at that time Examination showed that there was no longer a vesico vaginal fistula but as a result of a paravesical abscess communication had been established between the right ureter and the vagina which necessitated a nephrectomy

Matti sohn Prognosis of Infantile Gonorrhozal Vulvovaginitis (Die Prognose der Vulvovagin tis genorrhoics infantum) Arch f Dermat u Syph? 9 3 CEVI 8 7

By Zentralb! f d ges Gynāk Geburtsh a d Grenzezh Mattissohn advocates an active treatment in infantile gonotrhoral volvovaginitis The duration of the disease varied from 95 days to almost 11 months or normscape varietization by cases to stances a montes of in his cases. Besides the vagina and valve, the in his cases hesides the vagins and valve the grether was also treated without any regard to the ureints was and treated without any regard to the finding of gonociect. The cervix however was neter treated. In scate injections absolute rest never treated in sense insections are used for the first in our sun com signatures with 3 per cent alparent N to 1 bet cent motated of 0 5 bet cent tenparan M to 1 per cent protuction of a 2 per cent protuction of the discharge becomes serous are used the south as the uncoaring the state of the stat strugations with miver amount prejudations wash solution, are alternately used. The author re-exam med 31 former patients some as late as five years siter the treatment. In 23 cases a profuse seriewhich has accomment by 43 cases a procuse secre-tion was present and in 8 or 36 per cent genomocot-series again found. The results obtained are better when shocks in adults a manage a commentation of the cases. were again found. The results obtained are bettern than those in adult women. An according to the opinion was mere even. The author to the opinion to the opinion to the opinion of the opinion opinion. of Cahen-Braces that a restaute to the prognosis furnished before nuberty by the firmly closed external os uter. The prognosis

# firmly closed external or user the prognosist therefore is more invocable in minutes and girls than in menstrating somet on account of the limitation of infection to the lower genital tract Puppel, E: Dry Treatment of Leucorthon (I) Protected the first protection of the pr Proceembersanding des rivor saving process a Mos 3 3 xxxx 714 By Zentrula i d gre. Gyesk n. Qebutula a d Grenageb

The dry treatment of leucorrhies consuls in the use of yeast or bolus or a combination of both use of years or noise of a communation of bound termed serses. A min giass speculum is merred and the vagua, the latter siped clean and the vagua, the latter siped clean see the vagua, the latter specific thrown as a more than the product between the product between the product of the control liowa m uy a powder nower known es a tristed to the petient as has been done with the inisted to the posterior of the treatment of annual description of the treatment of lenconforces in arigina of acute and chronic gonor fencourages in Arigins of service unject our as served, for sylvaness

# Thomas, F. The Etchology of Gerclini Atresions (Gerclini, F. The Etchology of Gerclini Atresions) Homostake J Grecord (Gerclini) Atresions of Gerclinia w Gradu w Grad

Thoma investigated the formation of vaginal forms investigated the formation of vaginal aurenas ossen une success of rebu concernus He development of the female generally organic opposes hage sommen on the subject and result of the proposes hage sommen construction of the proposes of the propo opposes bagel s onmon on this subject and \cli s theory \( \) the secured causation of solders \( \) All the secured concludes as follows \( \) All the secured concludes \( \) All the secured conclud spons a and oxadinal allamination (3) which spok anows a ver ovagonal mammation is which acres the result of such inflammation in scars frequently ing result of open quantumnies in the form of the

AT STATE OF (3) which show recention of secretion and the state of the occus u or (3) which show recention of a shorth and all those case are cert tuly congenital such as reconstruct good to british by the symptoms of an experience of sect too. It is such as the symptome of the symptoms of th recentual to sect tion in anomalies of development. surgers and anomalies of germination of feet other than resemble tress as for instance of feet

ive development of the vestibule unusual brevdih of the urethral meatur malformations of the uterus. of the previous means manning some of the first mentioned bounts are buseful Other cases of Assumy stress of bonamer curr mone of the mac memorate for which the above mentioned factors do not hold good cannot be ethologically classified at present good cannot we excepted that in the great majority to the it must be accepted that in the great majority of cesses they also are congenital Regarding the or cases they also are congenue. According to the latter the cause with ver chemony to the same one which According to Thoma the causes the arrest Actording to Thoma the absorptive power of the polytic periodeum is described by the collection of blood in the grateful across the manufacture of the polytic periodeum is a polytic periodeum to the p organs the personeum being kept in a condition of organs has permoneum orang sept in a continuous orang sept in a continuous chronic irritation by the repeated intermitted entrance of mensitroid blood which leads to the

Infection by continuity from neighboring organs by ascent or by way of the blood or lymph vessels formation of adhesious is tately a conscious factor

Chemical and Physiological Property Chemical and Physiological Property Chemical States of the European Chemical States of the Chemical States of the Chemical States of the Chemical States of Chemical St

While normal blood coagulates after aix to seven minutes maximus moves consumers arter are to acted mmures, organic extracts from one uterus that risa and ovum bring about confulstion in a few seconds and oversit using about the game and a rew see death see when they are obtained 4 hours coastalation is of the an mail. The cause of this coastalation is of the au mai thrembokinase which together with vasodularin a which together with vasodularin a toromovement water logster was resonanted found in the juries of the organs. If it is long time at a new moved by Leeping the nuces for a long time at a removed by Leeping the nuces for a long time at to confirm temperature or in the thermostat. the confir room temperature or in one carecumnat one cought lation of in minor takes more more queen, but hydro choice acid show belond direction the becaute chioric acid abow beyond question to be presence (you would not as a boosa by experiments on a cose of the cost of

and netss. The tourney of the organic extracts are above to the organic extracts and show in two early. First, extens we consideration of organic extracts of the organic extract of th the lace of assertatin and second in venezure t gen through slowing of the circulation Crile G P. Some beyond it thad of Reducing the North of Operations of the North of Some Department of the North of Some 8 Of Organs J Au II A By Surg Gyane 8 Of Organs J

Th reclamation is patient handscapped hypertension or b pot too has been and is on the most cogent surgical problems. Mortality rates would be high were they breed only on operations on patients with hypertension. Or hypotension the result of infection or organic diseases. Crile believes that even these patients may be operated on successfully not only without fatal end results but without the familiar train of disastrous sequels. We will not only without fatal end results but without the familiar train of disastrous sequels. By note that the more than the sequels will be not only the control of the present on or hypotension may often be successfully combated by physiological rest diet and special therapeutic measures and the patient put in a conduction mythol operation may be safely attempted.

Our problem is (1) to discover what may be the special risks when operations cannot be postponed and (2) to explice means by which these risks may be obviated or minimized. The natural sequelar in hypertension cases are embolism thrombosis renal insufficiency angina pneumonia and cardiac fail ure due to psychic as well as physical strains seat of danger must therefore be found at the final point of meeting of both psychic and physical impressions - that is in the brain tissue. If no trau matec impulse could reach the brain and if all emotional stimuli connected with the operation could be removed or reduced to a minimum then the dangers of operation would be only those which would result from the local injury inflicted Brain cell exhaustion and the disastrous effect of the pres ence in the body of increased amounts of energizing products of internal secretion would be prevented This is brought about by Crile's method of anoci association which cuts off all nocuous or noci associations from the brain. The procedure includes (1) The lessening of the pre-operative psychic strain by the administration of solacing drugs (2) the administration of a general inhalation anaesthetic to obviate harmful impressions during the course of the operation (3) the progressive use of a local anasthetic to prevent passage to the brain of trau matic stimuli from the field of operation and (4) the use of a local anasthetic of last ng effect that the tissues may be kept relaxed and that painful after effects may be eliminated or min mized

Patients with hypotension have brain cells al ready weakened by the amenic condition. The definite and efficient remedy for the condition is direct transitission of blood which may be done sever al days before just before during or immediately after the operation. Otherwise the technique is the

same as for patients with hypertension.

The ansesthetic should receive more careful consideration. Crile does not use ether on account of certain disady-antages connernted but makes nitrons orude the anesthetic of chice because it is devoid of harmful after results and serves as a measurable protection against shock.

The technique in abdominal operations I llows
An hour or so before operation /6 grain of morphine
and / so gr of scopolami e is given hypodermat
ically to produce solace and quiet After the nitrous

onde anesthesa is completed the division of tissues is preceded by nerve blocking by means of infiltra tion with I 400 solution of novocaine. Each division of tissue in the course of operation is preceded by the injection of the local anesthetic. After incusion of the personneum the latter is injected with a or yet cent solution of quantee and urea hydrochloride. This infiltration minimizes post-operative yound pain and post operative gas pain. In the absence of a substantial process of the personnel of the per

In performing a hysterectomy the broad and round ligaments are infiltrated with novocaine before division and again before the wound is closed the stumps may be completely infiltrated with quinine and urea hydrochloride Novocame infiltration of stomach and intestines is not necessary on account of absence of noci-ceptors The results are that no matter how extensive the operation or how weak the patient or what part is involved if anoti technique is perfectly carried out the pulse rate at the end of the operation is the same as at the beginning. The post-operative rise of temperature, the acceleration of the pulse the pain, the nausea the distention are minimized or wholly prevented. In conclusion the effect of anon operation on the morbidity and mortality are given. In 720 abdominal sections a mortality of 17 per cent was found and in 2000 operations including every risk in general surgical practice the mortality has been o 8 per cent

HEARY SCHWITZ

Albeck Deranged Function of the Female Blad der (Untersuchungen über der F. nktom der w. ibhch en Unnblase) Fersamml d vord ch. Ferer s

en Uniblase) lersamul d'ord ch' lere: s kopenh 9 3 By Zentralbi f d ges Gynik u G burish s d Grenzgeb

Albeck examined 250 gynecological patients as to the action of the bladder and also made bacters ological examination of the urine. In 130 of these patients, that is more than half of them there was residual urine Of the 120 without residual uring 16 had bacteria in the urine of the 130 with residual urine 12 had pyuria and 64 had bacteria in the urine The influence of residual urine in urinary infection is therefore important Residual urine is found very frequently in gynecological diseases Defective function of the female bladder has here tofore been attributed to obstruction of the outlet but Albeck shows that the explanation is generally to be found in the bladder itself the obstruction being due to displacements caused by abnormal position of the genital organs displacement by tumors formation of adhesions between the bladder wall and the genitalia or in atony of the bladder wall from se they or on account of operations in which vessels or nerves were injured o from hyper distention of the bladder wall which frequently occurs during the puerpenum S A GARMELTOFT

of the disease varied from 95 days to almost 11 months in his cases Bead s the vagina and tales the urethra was also treated without any regard to the finding of gonococci The certis however was never treated In scute infections absolute rest in hed and cold applications are used for the first two weeks then irrigations with a per cent albargin 14 to 1 per cent proturgel, or o 2 per cent schihargan are used 14 soon as the discharge becomes serous and examination of it gives negative findings fragations with sil er albumin preparations and astringent such as zinc chloride or alum in weak solution, are alternately used The author re-exam fired it former privents some as file as five years after the treatment. In 13 cases a profuse secre tion was persent and in 8 or 16 per cent, gonococci were again found. The results obtained are better than those in adult women In ascending infection was never seen. The author inclines to the opinion of Cahen Brachs that a resistance to the advance of the gonococci is furnished before puberty by the firmly closed external os uteri The prognous therefore is more favorable in infants and mris than in menstructing women on account of the limitation of infection to the lower general tract

# Puppel F 1 Dry Trestment of Leucorthers (Die Irockenbehanding des Fluor sibus) Forisch d iled 1913 EER 714 hy Zentralbi i d ges. Gyask w Ceburtah s d Creasgeb

The dry treatment of leucorthers consists in the use of yeast or bolus or a combination of both termed serare 1 milk glass speculum is inverted into the sagma the latter wired clean and the powder blown in by a powder blower known as a screator. The use of this instrument should not be trusted to the prizent a has been done with the strigator \ minut description of the treatment of leucosthees in a rgins of acute and chronic gonor thea and of chronic pelvic afection is go en

Thoma, F The Ftiology of Genital Attenta (Zur Attologie der Gynaltenen) Monalus J G horith u Gynak o 1 x 1 Ry Jentralbi I d ges Gynak Gebartsh s d Crenageb The Friology of Genital Atresta

Thorse intestigated the I relation of vaginal atrests based on the studies of I eliz concerning th development of the female gental org n opposes lagel's opinion on this ubject and I it a theory of the acquired autation of most of the gential atrevas, and conclude as follows the vagnal atrest at a quired in which (1) the history shows a vel o agentl : il menation (2) which show the result of uch atlanta (son a series frequently associated with regulation the form of the occlu son or (1) which how ret plion of secretion All those cases are ria nis congent I which are recognized soon fir birth ly the ymptoms of retention of secretion I add tion those cases are congental which show numalies of development other than vaginal atresia 4 for ustance d fect

ive development of the vestibule unusual breadth of the crethral meatus malformations of the uterns etc provided that none of the first mentioned points are present. Other cases of vaginal attents for which the above mentioned factors do not hold good cannot be etiologically classified at present ut it must be accepted that in the great majority of cases they also are congenital. Regarding the origin of hamatosalping Thoma again disagrees with lest According to the latter the cause of hematosalpine accompanying angusal atresta is always some infection usually the same one which causes the atresas According to Thoma the absorptive power of the privic pentoneum is decreased by the collection of blood in the genital organs the pentoneum being kept in a condition of chronic irritation by the repeated intermittent entrance of menstrual blood which leads to the formation of adhesions

Infection by continuity from peighboring organa by ascent or by way of the blood or hamph essels is rarely a causatter factor

# MISCELLANEOUS

eit A Chemical and Physiological Propeties of Fatracts from Organ Determined by Experiments with Fatracts from the Uterus Oraries Fiscents and Fortus (Ober unge chemical propension) of the Chemical Che Gizelt A trakte von Lierus, Oranum, Placenta und Foetus)
Arch f d ger Physiol 913 clu, 36
By Zentralld f d gen Gyntk a Gebartsh a G Grennerb

While normal blood conculates after six to seven minutes organic extracts from the uterus placenta and over bring about congulation in a few seconds, even when they are obtained sa hours after the death of the animal. The cause of this congulation is thrombolinase which together a th sacodilatin is found in the junces of the organ If the vasodilat a is remo ed by Leeping the junces for a long time at room t mperature t in the thermostat the coagu latum of the blood tal a place more quickly tract from the sam orga s prepared with hydrochlune acid show beyond question the presence of asod latin as shown by experiment on dogs. By the use of methyl akohol vasodilat n can be btained from extract of the aterps overy placents and fortus The toxicity of the orgs ic extracts are shown in two way First extensive coagulation of blood a caused by the action of thrombolinase and th lack of asped lat n and second the asodulatin causes death by reducing the blood pressure to zero through slowing of the reulation

trile G B Som Newer Methods of Reducing the Mortality of Operations on the Pel it Organs I im M A pt3 in, 501 pt3 les, 501 By Surg Gypec & Olst

The reclamation of a patient handicapped by here tension or h pot n ion has been and is one of extrastion of the tube with a mortality of 11 general and occased estauration of the humanisation through the posterior various and various hough the posterior various valual with a mortality of 3 per cent an unpleasant complication of sumple drainage is post-operative harmorrhage in a decided parameter of cases a secondary harmorrhage in 2 may be a se

Nagel W Ecfarapsia (Über Eklampsie) B i klin II i schr. 19 3 i 07 By Zentralbl, i d ges Gynik u Geburtsh s d Grenzgeb

In ladacy disease during pregnancy \agel recommends milk diet and duress as prophylactic measures. After the onset of celampias he advises the Stoganoff method of treatment which he describes in detail I also gases treated by this method he had a maternal mortality of only 8 per cent and a fortal mortality of z per cent.

Schmidt O: A Contribution to the Study of Eclampsia Based on Minety Eight Cases (Bei ing zur Ellampsiefrage auf Grund on 98 F llen) Zickir f Geb risk # G j dk 9 3 lvcui 4 4 By Zentzabl f d ges Gynal u Geburtsh s d Grenzgeb

At the gynecologic clinic in Bremen from 1907 to 1970 the eclampsia treatment has consisted in immediate dehery by which the author was able to reduce the previous mortality of 38 33 per cent from the expectant treatment to 23 53 per cent

Since September 1910 38 cases have been treated exactly accordant to Stropanoff's method Of these cases to died or 26 31 per cent of the 23 cases of september 2012, and the 192 cases of the cases to died or 26 31 per cent of the 23 cases of the cases of the 24 cases of the case

The author is of the opinion that the Stroganoff method of treatment should always be carried ou in a hospital as only there can all details be strictly adhered to In comb nation with Zweifel's enesce tion a still greater improvement in the results may be obtained. The author does not recognize weather as an etiological factor in echampian Nexas

Rohrbach W Statistics of One Hundred and Fifty Eight Gases of Eclampsia and Their Treatment (Statist Lund Kintik ber 35 Ellismp sed lie und deren Behandlung) Zi h f Gebari h Grand o Jun 6 3 By Zentralbi I d ge Gynak u Geburtsh d Grenzgeb

The report comprises the time from April 1900 to December 1 1912 with 11,005 lab rs Eclampsia

occurred in 1 case in 70 or 1 43 per cent One hun dred and twenty-eight cases occurred in primipara: II in II parse and the remainder in III and multi The disease occurred oftenest during the months of June and August 22 cases each and least often during December and February 4 and 7 cases The average age of the primiparse was 22 6 years of the II paræ 23 3 years, and of the multiparæ 32 years Fifty five primiparae were under 20 years old and 46 primipara under 25 years The average age of the primipare is therefore not so high that a pref erence of the disease for old primipare could be deduced from it Twin pregnancies occurred in 7 cases 4.43 per cent 3 of the twin cases died. The eclamp sia appeared during pregnancy 38 times during labor 84 times and during the puerperium 36 times From April 1 1900 to April 1 1906 71 cases of eclampsia were observed with 30 deaths 42 25 per cent total mortality Of the 57 eclamptic patients 40 were delivered operatively with a mortality of 23 46 03 per cent Vaganal casarean section was done four times with three deaths abdominal cæsarean section five times with four deaths forceps delivery 25 times with 20 deaths, version twice with one death perforation 13 times with five deaths

Preparatory measures consisted in the use of the Boss dialato rice in times in the use of the metercrynter nine times, incusion of the cervical os nine times Seventy two viable children were obtained 6 of them being times. The total mortality was 21 it 6 per cent. Firthy children were delivered by surgical termination of the eclampsia during preg nancy with a death rate of 30 40 per cent.

From 1006 to 1012 87 cases of eclampsia occurred with 14 deaths 16 og per cent Of these 56 were delivered surgically with 10 deaths, 17 85 per cent Vaginal casarean section was performed 22 times with six deaths extraperatoneal casarean section once with no death forceps extraction 26 times with two deaths version 5 times with one death Preparatory steps were the use of the metreu rynter 4 times incision of the cervix 15 times The viable children numbered 82 (four times twins). with 12 deaths 14 63 per cent Surgically delivered eclampsia during pregnancy gave 52 children with 10 deaths 19 23 per cent. The maternal death rate decreased from 42 25 per cent to 16 00 per cent and the infant mortality from 20 16 per cent to 14 62 per cent with immediate rapid delivery. The author confirms the opinion of Freund that the early and rapid emptying of the uterus influences favorably not only the attacks but also the termination of the disease The quickest possible removal of the fortus and placenta should be the rule also if the child is Stroganoff's treatment has not yet been adopted nor Sellheim's breast amputation nor Zangemeister a trephining and removal of the uterus A good functional result was obtained in two of the three cases of decapsulation of the kidneys Hydrotherapy has been entirely abandoned Chloral and morphine are used very freely Chloroform narcosis has been entirely rejected Oxygen inhalations may

be of value Experiments with injections of the normal section of pregnant women did not show any apparent success. The results with fundin myections were variable Venescetion is often used. The sunboy prefers removing 400-500 ccm at one time rather than smaller amounts repeated at intervals the state of the contraction of the contract

Landsterg. E. Examination of Utine and Blood in Retengited, in Repair of the Bietrichan of Nitrogen Compounds and the Contents of Fibrinogen and Residual Nitrogenous Sub-étations; a Contribution to the Question of the Importance of Highestic Function and Quantity of Fibrinogen in Disturbances of Exhauptoniance of Exhauptoniance of Exhauptoniance of Exhauptoniance of Exhauptoniance of Schaller of Fibrinogen and Resisticksford Fibrinogen and Schaller of Exhauptoniance of the Codwagacchiantsformen Judies / Gebruick und Schwagacchiantsformen)

Gyntli 1915 izzm, 254
By Zentralbi.1 d ges Gynsk. u Geburtah s d Grenzgeb.

In most eclamptics there is an irregular increase in the amount of ammonia and amino-acid nitrogen in the urine while the urea is diminished acidity is increased to varying degrees. The differ ences in percentage of the mirrogen contents from the normal do not account for the very evident disturbance of the liver. They have no specific relation to the production of edampsia and are only as motomatic. The increase in ammonia is the result of an increased formation of acid in the system. The amino-acids are usually but not always increased a change to be attributed in conjunction with other findings, to the diminution of oxygen and decom position of sibumin Urez is diminished because ammonia is increased To this must be added the fact that urea is excreted with difficulty by the damaged lidney. The increase in residual introgen frequently beerved in the eclamptic is the result of the renal insufficiency usually found. The amount of fibrunogen to usually higher than in the healthy pregnant partunent or puerperal woman An increase in fibringen also occurs under entirely normal conditions this symptom therefore is only an accessory sign which does not have any injurious effect

Negner A Treatment of Eclampeia (Zur Behandjung der Eklampue) Hed Ki z. Berl. 19 3 12 318 By Zentralbi I d ges Chr u Greazgeb

The author discusses the different methods of trainmet for eclampsia consensative active by early deit ery Stroganoff a method with morphism and chloral with a conducte of external irritation and quick but not forcible delt ery and Zweedid method of bleeding and consensative trainings. The choice of in thost depends in the very manable consensative trainings of the consensative trainings of the consensative trainings are consensative to the consensative between a corrective therapy and the extremely conservative treatment. He give sur out according to Stroganostic consensative treatment.

noil a principles, removes at least 100 ccm of blood, and it possible didners under aneathess. He reports 3 cases that the control of the con

Tourneaus The Treatment of Eclampsia (Dec Behandlung der Ellumpsie) Fesinde & Med 913, xxxx 633

By Zentralbi i d ges GynZk u Gebuttah a d Grentgeb

The surpoal treatment of eclampsa must be considered as a timeg of the past 11 consisted in rapid delivery by major surgical operation. It has now been replaced by the expectant plan of treatment with the use of narrotice. Stroggaed's proclume as finding moor recognition on account of its good results. However, Tourneau believes that bood letting must be added to make the treatment will more effective. He uses venescrion in all collapses patients even in those meeting delivered collapses patients even in those meeting delivered collapses patients even in those meeting delivered collapses and the stream of the s

Penton F Report of a Series of Abdominal Caesarean Sections Conad M As J 913 m By Surg Gynec & Obst

Thus as concuse report of a series of twenty-was consecutive operations done by the author during the past four years. Sixteen were done for consecutive operations on the same past energy designs and stresses of the wagns. If me were second operations on the same patients. All the hidden were delivered aitre but three doe in a few days from prematurity. One mother died but t. might fairly be claused that her death is a son due to operation.

All the cases were done before rupture of the membranes or before any attempts at vagnal delivery or more than two vagnal examinations had been made and these latter under strict per cautions. All operations but one were done in boot ish

The same technique was followed throughout the exten and was in its essentials the same as a commonly used in the United States and Canada. The mession was four inches or less, longitudinal, with its center about an each to the right of the unifold. No attempt at hieronizates were removed. There the santiant immediately applied his palms famly to the adea of the ulterus and overted the cut surfaces. This mancure stopped the bleeding oblierated the uterna cavity until firm contractions had set in and slao rendered easy the introduction of sutures in the later cases pituitin was used with good effect mendeately after extraction of the baby. Three tiers of satures of chrome gut were used in closing the uterus. The author does not rupture the membranes before opening the uterus nor as a rule does he dilate the creary.

Patients were on full diet by the fourth day stitches out the eighth or ninth and patients out of bed by the twelfth

I am using it Fenton says of the pelvimeter mainly as a means of detecting those cases which may have deformed pelves. As soon as one com mences to lay down definite rules for procedure based on any diameter then the pelvimeter's usefulness is in a fair way to be lost By far the best internal pelvimeter is the hea i of the child that has to pass through that pelvis. If the head will pass through what difference what contraction exists? If it cannot do so without serious injury the most convincing demonstration that the pelvis is ample for an a crage child will not assist very much in the delivery In a badly deformed pelvis it is a simple matter to decide upon a course of action but in the slightly contracted cases it is not so easy woman's previous obstetric history is a very im portant factor but even here and in all primiparae in this class. I always feel that labor should be given a fa r tnal

The author is sure that ante partum hemorrhage often a field for censuren section. He says Even a primipirus near term with placenta pravia not in labor cervix not readily dilatable the mother a risk can be greatly reduced and the budy a life all but guaranteed by section whereas by silve procedures the chances for the child are wall and talogues to the mother very continuous.

Rachmanoff A N Thirty Cases of Classical Caesarean Section (30 Islie on klassischem kaisersch tt) Urd R ndache o 3 zl 04 B) Lentralbi f d gre Gynall u C burtah d Grenzeeb

Among 25 000 labors between 1909 and 10 2 labere of the 25 of the

The author deems it advasable to perform the tubal resctiona about 2 cm away from the uterus as by this method harmatomas are prevented. The uterus and the abdomen were closed with sulk which was removed on the eighth day. Are of temperature to 38 C with natact membranes is no contra indication to the operation. For neglected cases perforation of the child alone is fasable. Altriast

Kayser Classical and Extraperatoneal Cassa rean Section Compared (Der Kasserschnitt 1 Wa del der Zenten) Forisch d Wed 19 3 xxx 8 t

By Centralbl f d ges. Cynāl. u Geburtsh d Grenzgeb

The extraperationeal casarean section is discussed in detail the changed technique and indications for the new method being especially dwelt on In a comparison between the classical and extraperitoneal operations it is evident that the latter method has a number of advantages and also some disadvantages Among the latter are the impossibility of performing sterilization which may be urgently necessary and the poss builty of producing an infection of the pelvic connective tissue in which condition prognosis is Moreover the extraperatoneal method endangers the life of the child on account of the difficults of either manual or forceps extraction In résumé the author concludes from the short history of the extrapentoscal method that the procedure has not fulfilled what was expected of it Vevertheless these modern procedures even though not adapted to the private home are distinct advances in our therapeutic measures, especially after the technique has been perfected and above all when further bacteriologic research has cleared un dangers of infection

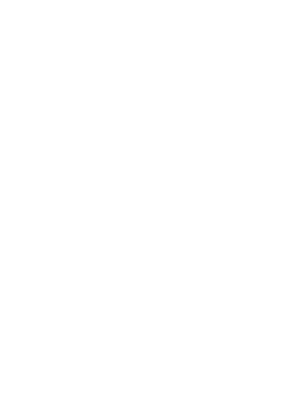
Hirst B C.: The Modern Extraperitoneal Caran rean Section with a Description of the Best Technique for Its Performance Surg Gynec 5-061 9 3 xm 504 B) 5 rg Cynec & Obst

Of the sustent different techniques for extra peritoneal exargent section the author prefers that of veit and Promme with an original modification which consists in evening the peritoneal flaps to gether before opening the uterus. The uterine wound is severed with a running catgut stitch and the peritoneal flaps brought over it. Vine operations are reported utthout internal or fretal mortality

Tuszkal Indication for Abortion in Hyperemesia and Heart Di case (bler Indikationen ar U te brochung der Schwangerschaft bei Hyperemeus und Il rakranthenen) T Internat Iled Cong Lond

By Zentralbali d ges ( ymak Geb rish d Crenzgeb

Abortion has often been done for persistent somiting due to hysteria which would have yielded to suitable treatment by uggestion. Other cases are merely symptoms foth riseases such as gastris personnitis etc. for which appropriate treatment should be give the course hypermensing gravi larum.



eclampsia and Walhams recognizes reflex neurotic and tonic forms. On the other hand. Winter claims that there is but one type of hypercenesis. This begins as a reflex neurosis and only under certain condutions takes on the bucture of an intorication.

The author attempts to decide whether Williams of Wilter's were some nearly correct. Hyperemeas is a continuous type of vomiting that lasts for weeks or even months and is accompanied by emacation and weakness without organic cause. If to the above the source of the s

The relation of hyperemesis gravidarum to acute yellow aimphy of the liver should be thus interpreted hyperemesis in present and acute yellow aimphy develops subsequently the hody being attribute on weak to withstand very long and yielding before the attribute changes have become very far advanced Both of the diseases are the result of an untouncation or institution could never bring about such degenerative changes without attrophy nor could it produce the acronic body of the services begin the service

Vote of the cases of hyperenesss th t end fatally are the result of an intexaction. Hyperenessis and eclampian are seldom associated with each other for the former occurs early and the latter late in pregnancy. All cases of hypereness that develop symptoms of tucous do so after the clinical picture of simple hypereness; is present and autopsy shown that such cases did not begin as a tosicosis, but ended as such. In other words, Waster's theory is the more clausable.

Recasens, S. Modern Conception of the Intexica tions of Pregnancy (Moderne Aufassu g de Schwagerschafts-Intouk toon) Res lene d se

neld q 3 xv 57 By Zentralbi i d ges Gynak Gebu tsh d Grenzgeb

D sturbances do not occur in pregnancy as long as a belance is preserved between the products of the own and the maternal organism. Adsturbance of the burna and the maternal organism. Adsturbance of this balance causes those cond tons in the early months of pregnancy which are considered as probable signs on account of the frequency of their occurrence. These functional dusturbances a the beganning of pregnancy are rad cally different from the publicage processes during the last months. The publicage processes during the last months are produced to the property of the contract of the publicage of the product of the publicage of the product of the publicage of t

as the breast the thyroid glands parathyroids adrenals hypophysis etc or temporary structures such as the corpus luteum These signs of immunity during the early months may go on into toxemias, if injuries to cell structure are added to the activity of the albumin products derived from the ovum producing hyperemesis permicious aniemia etc. The toxemia occurring during the latter months of pregnancy arises from a combination of autogenous and heterogenous factors which markedly reduce the power of resistance. The heterogenous poisons are formed principally in the intestinal canal These albuminous products enter the blood stream and produce injuries to cells hystolysis in the liver tissue and the endothelium of the vessels ferments arise from the rapid cell destruction causing coagulation The obstructing coaguin formed in this manner give rise to necrotic processes in the eclamptic liver. The autogenous poisons come from many organs as detached liver cells products normally excreted by the kidneys sweat glands etc or products of fortal metabolism The toxemia of pregnancy is not the result of a specific toric agent The success of the prophylactic dietetic treatment supports the theory of the intestinal origin of the eclamptic poison The result of the treatment with the serum of pregnant women in toxernia is based on the fact that the protective substances of the body during the last months of pregnancy are diminished and also explains the grave course of general toxic or septic disease in puerperse

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Scipiades, E. Myoma and Pregnancy (Myom und Schwangerschaft) ibhandi e d Geb d Geburish

u Gy de 013 201 By Zentralbl f d ges Gynak u Geburtsh s.d Grenzgeb

On the basis of 67 cases the author discusses myomas in relation to pregnancy labor and the puerperium. In regard to pregnancy and myomas the author comes to the conclusion that only a small percentage of the women remain free of all symptoms 34 op per cent complain of pain 29 67 per cent have changes in shape of the abdomen and 85 per cent have enchanced symptoms such as difficulty, in unnation and defectation dyspinors etc. Finlargement or softening of the fibroid during pregnancy is not the rule. Change in position of the myoma occurs in tumors of the 6049 and also of the cervix. The congestion of pregnancy frequently causes pathologic changes in the tumor.

Njomas accomps y extra uterne pregnancy in 2 per cent of the cases and are undoubtedly the cause of the e tra uterne pregnancy in My per cent of the cases and are undoubtedly the cause of the et a uterne pregnancy in My per cent of the case and hemorrhage fibrodis in 6 per cent. The rare pecialed form is to 16 per cent. The rare pecialed form as to 16 per cent. The rare pecialed form as to 16 per cent. The trare pecialed form as to 16 per cent. The case of the compass the unaccreation of the tumor in the pel is and n 1 rarely pent neal disturbances occur in regard to the d agreess it 1 most difficult in the

early fart of fregn to the larger the tumor the more the cervite is de turted and de placed by the turner Adva tay hould be tak n of rectal ex amingium a d exame atma un ler narrout Lagnord of premune; is not so urgent as that of the tumor is not but of it cases can a post; d agreeis of the tumor be made it is ea ly mutalen for other tumors for extr uterine pergnancy for sterus I Crais and for twin pregramy. In regard to program as it I loubtful abether preparately and create to program as in 30 to 31 per cent of it cases operat reinterference i ir inateri wh h frequently leads to

int rruption of the perm rey Har ly more than ball of the cases on to term. Artificial interruption the pregnancy should not be a loyed a a th raheath, a rate a live of Table lited upp ha a henef cal effect on the turest and buth at stion Abriominal. and preparate del sery are da gerous myot my d n g pregnancy | also dangeros for het operation i sures agreal ampoist in the het operation i sures agreal ampoist in the let i the same must be opened it training a for other reason The degrees of the last not the elicity hereit and frequently the position is at small labor is

sed aged the first at ge coper ally a prolonged in measurement of certical tumbers in prolonged in measurement of certical tumbers fail procedure from and in tran the proclum fail) rupture of the raemi raises occurs ! nearly three superire or an expension rates occurs a meany enter problemed health fr q enly erreign of I The that I stage of labors abnormal in as best call more of these viage to saint and non-tumor area ( The spres to and m nu i remeral her g freq ently nercesar a un a actuaria inc. E race curry exercis in excited with the most the frequent harm these. The industry th pr en my upon the turne may my feet it if in three diferent ways in a softening and I ter fastening out of the turner at r. gout dithe belts and to the people for each (case) belts and to the people for each (case) prior of the instance of the color of the co nucus to octermine to criteria property cultural interferente operation access to other access to operation observed to other access to operation. W men with mustase of the ut ru bould there er men a in merund en ene ut ru musi inere force he sent to the hospital All o at trical ad arrecting and operation from simple reposition t lotal (region m ) at times be necessary. But ing the puerper um a ll a in the treatment in siluted by the m matou teru asepsi to th more in at 1 and The realment of the pure more and me at 1 are an excavment of the con-perium; mostly years in the a second a secre-il the moons i the sour or succeed a secre-

Neumann II Diabetes of Premancy Schw nere justper | 1 or or schaltule beles / he

(schartsh d (senzych By Lente B1 i d ges 4 year trad t mitten t a liabetes imiared

Diabetes of pregnan pergnan ) in a ; ter patic ( a majoris initial el ) by the pregnam ) in pr woul b liby ind sou i

The course I the two may be i lentical and deserves as full was hing. The exerction of small amou to of levulous factors and penture t of no ugn ficance or resumme coccurse and produces or no sign neutre. The et 4 27 of disheles furing pregnancy is not el et a 37 or maneres interes pregnance and el et as 3et various theories ha ref been proint g ted and discarded. The rational treatment cont in place it the patie t on a su tat le diet early the place is the pairs, then a vicinity of a which has resulted in reducing the mortality of mother and this from 50 to be per entity of the period of the p the lat there morth a ctore discrise as I and ors lutyre act lare frequently e creted and shortly belinte deh ery affam also which pe at to a not ment of the k neys or of the hypophy and Achimus especially a multicases is not a serious

symptom the pregrant being pred penel actions will actionaria and c en a severe degree I actions will not ally as cause one An increased a cicion of action b frequently been observed during the List less mouths of backranch and a kradual receim of the same if the patient wa placed on a suitable liet Hydramion abort in an pre m ture lal st n be prevented by areful hving The puetletium u Hy 1 normal and the actione the purely from the ment of the act of the children are halthy and utily of good weight by m ry 1 beine patient m ; her me worse burns, permane; but after d h cry may return t then cornel cond ton these with a here tary t in remeat cont ton the server with a cere tary i in recovering ent my although it y are pred pos-on a cout of the usecutibility of the nervo-system. There is therefor no miscation i terr pt a pergy n y on ar sart of diabetes, but tert pt a press n y on at sure or manetter, but labets, patient about he warned before she labets, patient at each to be permitted t enter the mant i t t and bef COT IT INT OLIUS

Star ( Tuberculosi and Pregnancy Ster extion III utra tum Thema T berbulose and Gr distinct to dear and a new total the Court By Len 1271 | 1 ges ( wash ( seburtsh d ( reas

The a thor count is that the accusation bylanting a sugness is the number of p prevation v snauces 6 and n of pres 1 onerston ad me n of t all ration is not just The form

The n mber of therapeuts borton ad are n more of therapeute button in the statem performed 1 mail L adl) the min he personned their use 1 was discountered to their beath 1 necessary for the s if not their beath 1 necessary for the s if their children of 1 The indicate many continuous was a continuous we have a medical many continuous and continuous was a continuous was a continuous was a continuous and continuous perform R therapeuts shortion and term bould be det rmined by the family physic honnik mouses at it no pil test t uplate author terrupt pregn ny onl n the curing the sub-trulou patient ln d and

ath man, hil brenth uthor propages ten

Balaban I A: Treatment of Syphilis in the Pregnant Woman (Zu Syphilisherapie bei Schwasgeren) A b a d geb i go åk kil Pref

Redich St. Petersb 1913 | 55 By Zentralbi f d ges Gynal u Geburt h s d Grenzgeb

According to the latest researches the mother of a syphilitic fortus must be diseased or have been d seased The treatment of the pregnant woman shows good results. In one case of habitual abor tion and in another patient who had several times delivered macerated infants no signs of lues existed and the Wassermann was negative. The author treated these women during their last pregnancy with mercury and potassium iodide Both were delivered of healthy children. A third case was treated with salvarsan She was a IX para 25 years old whose last 6 pregnancies terminated during the seventh to eighth month with macerated babes She was in the beginning of pregnancy and had secondary syphilis with a positive Wassermann Salvarsan 045 was injected subcutaneously and after two months another subcutaneous injection of o 5 sal varian was given. The Wassermann reaction was negative at the end of pregnancy and a perfectly healthy child was born A Wassermann made later on the child was negative Reat DE

Pankow The Frequency and Diagnosis of Car diac Defects During Pregnancy (Haufigkeit ad Bewertung der Herzi hl Graudstat) Dr i k Geselleth f Gy at Halle n 3 M y By Zentraibl f d ges Gynäk u Geb rt h

d Grenzgeb

From material of 5000 maternity cases Pankow in estigated cardiac defects during pregnancy Ιt was found that 40 2 per cent of all women had accidental murmurs and that 28 per cent of all men had actual cardiac defects The diagnosis of accidental murmurs is frequently difficult. The

following two points are of interest in the diagnosis In almost all pregnant women an enlargement of the heart to the left exists e en in those without cardiac murmurs but an enlargement to the right can be demonstrated only in those with actual

cardiac defects

- In actual cardiac defect the murmur is different. from the accidental murmur In the accidental mur murs the first tone is clear followed by a short pause and then the murmur In actual cardiac delect the first tone is partly overlapped and followed by the murmur which also takes up a good part of the systole The accidental murmura mostly are soft blowing murmurs although d is ite loud murmurs do occur and an accentuation f the second pulmonary ton is not uncommon They probably originate in the pulmonary artery and are heard most dist notly in the third I ft inter costal space or over the third rib near the ternum In regard to the artificial interruption of pregn ncy
- a data and catso the follows g m 3 be said 1 If in a pregnant woman uff ring from cards o disease no amptom of c rd ac incompetence appear d ring the pregna ca it i not j tifiable to interrupt

the pregnancy as complications in all probability will not occur during labor

2 If however symptoms of failure of compensa tion appear during the first half of pregnancy it is clear that the reserve force of the heart is exhausted and pregnancy should be interrupted as the in creased amount of work thrown upon the heart in the latter months of pregnancy may lead to a

sudden collapse of the heart 3 If symptoms of failing compensation make their appearance only toward the end of pregnancy and the lesson is a mitral stenosis with marked signs of myocardial degeneration the pregnancy should be interrupted. In cases of mitral incompetence expectant treatment may be used as all signs of insufficiency may disappear under approprate treatment. If however the signs of failing compensation persist in spite of treatment or if they return immediately after the cessation of treatment it is advisable to interrupt the pregnancy and this is best done by vaginal section. The frequent occurrence of stenosis and insufficiency combined may render the prognosis extremely difficult but it must be based principally upon the degree of stenosis and the condition of the cardiac muscle

4 If the symptoms of failing compensation make their appearance only at the beginning of labor it is advisable to wait for delivery to be completed or do an extraction when conditions demand If the labor is evidently to be a prolonged one and the failure of compensation is extreme operative

delivery may be resorted to

Mayer A Th Relations of Colon Pyelitis to Gestation (D Beziehungen der Kol Py lits zur Fortpflanzungstaligke t) M hen med il ch sch 9 3 lx 479

By Zentralbi f d ges Gynāk u Geburtsh s d Grenzgeb

The author takes the stand that pregnancy is not the actual cause of the pyehtis but only a predi pos ing factor According to his view there is an ascend ing and a descending method of infection the latter being the more common Frequently colon bacilli disturbances of the bowel (appendictis stomach diseases etc.) by way of the lymph stream. In cases of pyehti during pregnancy premature labor is more common and the chil lien are poorly devel oped The ymptoms usually recede during the pu rperium. On account of the danger of ascending nfection aternal examinations should not be made durt g labor except f r urgent indications. In dif ferential diagnosis appen licitis peritoniti puerperal infection acute respiratory d'serses un l'uterine hæmorrhage my t be considered WELSH'S

Schlayer Pregnancy and Disea es of the kidneys (Schwargerschaft od Serenlesden) Honat he f Geburt h G lik 9 3 rs 27 By Zentralbi f d ges G raak (ab rish d Crenageb

As genuine ephritis cannot always be dit n guished from the k dies of pregnancy Schlayer pro

oses to let the indication for induction of premiture labor rest on the result of the functional tests of the kidnevs If general systemic symptoms as uramia appear as the result of the damage to the kidney labor must be induced even prematurely cardiac hypertension and hypertrophy however this should be required only during the first three months of pregnancy and in the last months only when complications such as retinal changes ursema. etc appear Gestation should also be interrupted in nephritic cedema only when other symptoms of a general nature complicate the disease or the ordena does not disappear under dietetic measures Another aid in judging the condition of the Lidney is by the excretion of unne the qualitative determination being far more important than the quantitative. This is obtained by the kidney test meal, consisting of coffee with milk, bread, and sugar mornings and afternoons malk for the second breakfast, clear soup mashed notatoes and beefsteak for lunch followed by a cup of coffee and gruel for supper The urme is collected every two hours and its ouan tity specific gravity and sodium chloride content are determined The normal urine shows great deviadepending on the ingestion of liquids with the different meals. In the nephritic patient such deviations are not encountered the find ags being constant and fixed because the reaction following the ingestion of limited with the meals is markedly delayed on account of the diseased condition of the kidneys nephritis f pregnancy tends to continue after preg nancy even when the albumin disappears. As long as the kidney excretions are not normal the patient should not be considered cured and should not be KIRLER come pregnant

# LABOR AND ITS COMPLICATIONS

Christiani, A The Use of the Metreurynter in Labor Complicated by Myorna (Hystercuryse be Myon unter der Gebent 2 Izze 1 Geb 118 Optic 1912 Izzu 350 By Zentralb 1 d ges Gyakt u Geburtsh a d Grenzgeb Christiani, A

Christiani recommends the use of the metreuryn ter in cases in which a spontaneous fahor cannot be expected on account of an obstruction of the true pelvis by a myoma resulting in weak labor pains The metreprypter acts first as a physiological stim ulant to labor pains secondly in proper cases it may hold back the tumor and third, after some hours it enables the obstetrician to make an exact exammatten t determine whether a hving child can be born whether he must perforate and extract the dead fortus or whether he is compelled to interfere ROBENTERS surgically

Soutter II 9 Calcified Ovarian Fibroma Ob attracting Labor Proc. Ray Sec. Med. 10 3 vs. Obst & Gynec Sect. 335 By Surg. Gynec & Obst.

The author reports a case in which a calcified ovanan fibroma impacted in the pelvis obstructed izbor The patient was delivered by casarean section and four months later the tumor was removed

Macroscopical examination showed an obling to mor partially covered by pentoneum measuring 18 em by o cem by o zem A normal ovary and a por tion of a tube with mesosalping was attached to one convexity The pentoneal surface was covered with small calcareous plates The tumor was sectioned with a hand saw The cut surface was homogeneous It had a groundwork of white ordenatous looking fibrous tissue in which innumerable calcareous nodules were embedded. The center of the tutoor showed the most fibrous tissue. The weight of the specimen was a lb 8 oz

The microscopic examination showed interlacing bundles and masses of thick tortuous collagen fibers with sparsely scattered spindle-cells between the

6bers There are no similar cases so far as the author can discover in the literature C H DAVIS

Sievert. C : Rules for Districction During Labor ud for the Treatment of Post Partur this for the treatment or Fost ractum Harmorrhage with a Report of 42 Cases of Manual Detachment of the Flacenta (Lebra for du Den I kiton in der Geburtchiffe und it Behandlung de Nachgeburtbil tungen der Hand von 42 manuellen Placent loon gen) Desizehe med IV k sekr 10 3 zazaz 2 co. By Zentralbi f d ges Gynšk u Geburtsk s d Greutgeb

The following antisepsis is recommended f r obstetrical cases Trumming of public hair scaping of the external genitalia, cleaning with a 1 per cent soap solution of cresol arrigation with a 1 3000 acid solu tion of luchloride of mercury Vaginal irrigation with solut on of the acctotarirate of aluminum is used only in suspicious cases Rubber gloves are worn only during operations lasting for hours

In forty two cases in which a manual detachment of the placenta was necessary 2 deaths occurredone on the sixth day of the puerpersum from embolism after an attempt at version, and one from sepsis, but the patient had a high fever when ad mitted to the choic An absolut ly afebrale puerpe num was attained in 60 per cent. Not a single woman died from bemorthage amongst coop labors The amount of blood lost is measured also the height and width of the fundus of the uterus If only too gm of blood are expelled into the tray the north is compressed for from ot 15 monutes by Rissmann a compressor This natrument is so harmless that it should be included in the outfit for midwives

Lares Ponfick, W The Results of Artifice 1 Prematy e

Ponflick, W The Results of Arther I Premist a
Labor in Moderately Contracted P i es the
Eriolge der kunstlichen Frahgebatt hem engen
Becken muttleren Grade) Ziele f Geberith u
Grad 9 i han 45
By Zimtabli i d ges Cynak Geburish d Grenngeb

Among 2 on cases of labor there were 4 uses of contracted pel with a true conjugate f not less

than o cm Ponfick never employs premature labor in primiparse but lets the case end spontaneously During the last six weeks Prochorowik's diet is prescribed The membranes are kept unruptured as No internal examinations are long as poss ble made during labor and if an exploration is neces sary it is made through the rectum Morphine is administered liberally as Ponfick has observed good effects upon the pains The use of pantopon and scopolamine has been discontinued as they prolong the labor Sacral anæsthesia has also been discon tinued as its use is too uncertain. The spontaneous entrance of the head into the pelvis is aided by Walcher's position by the delivery chair and by walking around As soon as the head enters the pelvis extraction with forceps is performed. If no progress has been made several hours after rupture of the membranes of the foetal heart sounds decrease or if the mother's condition demands interference expression is attempted under anæsthesia and eventually version with episiotomy or high forceps with perforation. The result of fourteen trial deliveries of this kind was eleven live children five spontaneous labors four forceps deliveries and two versions Artificial premature labor is induced with a metreurynter between the thirty sixth and thirty much week. If after the rupture of the bag the head does not enter the pelvis, immediate version and extraction are performed under anæsthesia or expression in the Walcher position. In this manner fifteen women were delivered Eleven live children were born mine of whom were discharged living Of the six dead children three died of asphy xia during extraction as a result of stricture of the os Of the mothers only one had fever which reached 30 o on four different occasions but ended in recovery Of

Hervel

Mütter A Shape of Head and Mechanism of Birth (Über kopiform und Geburtsmechan un ) Houi seit f Gebert h u G; Mr. 9 3 xxx 1 4 By Zentralbl f d ges Gynak u Geburtsh s d Grenageb

the nine children discharged eight lived

The author desires a simpler classification and nomenclature for the presentations especially the head presentations, for the sake of a better under standing of the relationship of the parts in the different head presentations. Not only does the practical consideration of the difficulty for the student demand a simpler classification but it is needed on purely scientific grounds He suggests a scheme of classification based on mechanical prin ciples, according to which the designation of the presentation is to be from the lowest point of the bead the sub-classification to be determined by the d rection of the back. There are 5 head presents tions (t) Posito occipitalis - occipital position (2) posito verticalis - parietal position 3 Posi to sincipitalis - frontal position (4) posito fron talı — brow presentation (5) posito facialis face presentation. In each of these 5 presentations there is a dorso-anterior and a dorso post rior post

tion Here there are 2 4 6 or 8 possibilities Back laterally forward or laterally backward docuonatenorand dorso posterior right and left transverse position right and left and posterior and anterior primary straight position public dorso anterior position and sacral dorso posterior position. This simple scheme gives 40 presentations. If we consider only complete positions throughout labor there are only two the dorso-anterior and dorso posterior making only 10 presentations.

175

All these forms are observed in practice and must herefore be recognized scientifically. He tries to answer the objection that from the standpoint of teaching it is impossible to consider therare presentations. He holds that these are the very ones that are unporsant for the practitioner to recognize and that therefore they should at least be mentioned in the text hold. The comparative study of the most support of the control of the cont

Jard ne R The Retraction Ring as a Cause of Obstruction in Labor Lance Lond o 3 cixxv 998 By burg Gynec & Obst

The author reports a case in which the lower uterine segment was ruptured in an attempt to perform crision in the presence of a retraction ring formed in front of the presenting head. Both these were tracted by cosserian section with happy these were tracted by cosserian section with happy the section of the contract of the section of the contract of the contract

Jardine also reports two cases where the retraction ing formed above the presenting head in each case the child was delivered only after a destructive operation. Both mothers recovered, but one developed a pelvic abscess He bel eves that where the child is in good condition exparean section is indicated for this type of cases.

He mentions a patient in whom a retraction ring formed with breech presentation Both mother and child were saved He believes that retraction ring is a more common complication of labor than is generally supposed C II Davis

Basset R. The Importance of Early Rupture of the Membranes for Labor and the Puer perium (Über die Bedeutung des Industig gen Blesen sprunges i r Geburt und Wochenbett)

Zinhr f Gebu i is C. 3k o. 3k iz. 366

By Zentralbi i d ges Gynsk u Geburtsh a d Grensgeb.

A total of 444 labors were investigated in 500 of which the sac ruptured when the dilatation of the ceruit was from two to three inches. The rupture occurred shortly before or immediately after vagnat azamanton which determined the degree of dilatation. The results observed are as follows. A shortening of the d ation of labor did not occur.

The greater number of the primiparse were delivered after two to three hours an I the greater number of multipara after filteen minutes. The longest dura tion of labor in a primipara was therty eight hours due to podalic presentation and extreme rigid to of the ext rank or uters. In three multimara, the dues tion of labor was twenty four hours as a result of weak pains or continuous contraction primipare and old multipare are predisposed to an early supture of the membranes. The latter is also frequently observed in abnormal positions Prolapse of the cord was noticed in a per cent of the cases. This occurred most frequently in transverse positions and deflected head presentations. The extremitics presented in the cases. The frequency of surgical intervention was not high and amounted to 5 2 per cent 3 2 per cent in primipare and 7 5 per cent in multiparse. Prolapse of the cord was the most frequent indication for surgical interfer ence Laceration of the cerus took place once fregular labor puns protracted labor and contin your contractions the result of the arry rupture of the membranes were observed eight times in multiparæ a d ten times in primiparæ Post-partum atony was relatively rare and occurred in 4 per cent The atony was very wvere in a few cases Febrile puerperium wa observed in to per cent of the cases, 20 1 per cent in multip re and 10 7 per cent in priminate. The maternal mortality was u! the fortal 1 6 per cent. The most favorable time for the artificial rupture of the membranes in primi para is when the cervis is almost complet by dilated and in multipure when the dilutation a shout 3 Be mrs mches

# PUERPERIUM AND ITS COMPLICATIONS

Hirst B C Dickinson R L and De I ce J B Report of th Committee on the Treatment of Puerperal Fever J im M 1 0 3 lu, 1318

By burg Cynes & Okal.

The report w s obtained by sending the following nurstions to 400 professors and assi tant professors of gynecology and obstetnes in the United States and (anada) to professors and assist i pro-fessors of urgery in the United States and to do professors of olost true, and gynecology abroad in Ingland Inl d scotland term my France the etherland Russ and Italy

I prim para with septic abortion & Quest on three month f r two d vs hamorrhage need go bl the ovum t t ret med What would you do 1 prim para with septic bott on t O esteon three month f r to day harmorehage negligo relled plan i retained Whit ble the fortus

would you do Question ; I jempara fourth d y after full of ut rine fection terra tel ry positi ad no hæmorrhage ret mion f e ular y mounts suspected Wh t would you do

Question 4 If you belie in et terfer nce when do you do 1

Question 5 What lo you do when harmorrhage complicates sepsis

Question 6 If you belie e in trusting to nature when ovular remnants are retained how long do you walt before operating

Question 7 Do you try t differentiate between supræmic and bacteræmic states before operating

How do you do at Question 8 Do you make any di tinction between

the treatment of sensis aft r abortion and that after full term delt erres The answers to these questions are tabulated

The conclusions reached are as follows

f The majority clean out the sentic uterus at once a not negligible minority believe that it is sale to tru t the expulsion of the infected uterine con tents to the powers of nature z In the majority of cases it has been found safe

to invade the injected uterus with finger and cureite 3 There are however many cases in which the infection is f such a nature or the resistance of the patient is of so poor a quality that active inter-ference turns the scales against the patient. She

cannot stand the mocul tion with autogenous a The experience of the minority has proved that ovular remnants, even though infected in the uterus do not create such dangerous conditions a we formerly believed demanding instant removal but that it is safe to wait for gature to erect her own barriers against the progress of infection and that t mportaing measures or mildly timulating ones,

often suff ce for a cure t We all feel the need of some method by which it would be possible to distinguish benign from v ru lent bacteria h ng n the genitaha but as y 1 no su h method exists. Whe 1 becomes possil le out practice will become more definite. At present one half of the authorities do not try to mak the d struction holding it impracticable

6 After the uterus is once impated a should not be aga n in aded by fing r or curett Ten nould prem t tiseptic douches

B The 1 mpon 1 out generally used to stop the bleeding a infected cases. Evidently there is not much f of dammi g back the niection ad per milling greater absorption II BY SLBU TE

Zazkin A E Th Significance of limmolytic Streptococci in th Path logy of th Pur perium (L. Bedeutung der hamolytischen Strepto-kokken in de Puthol me der Nochenbett.) d geb ri h gyn k hi Prof Redlich St. Pet reb

By Centralbl f d ges Gs at Geburtsh d Crenageb

The uthor xamined the lochia of a puerperal nom with a imperatore (among which there were 5 C St. I adometrat s I par metrate o of a ute pel se per to 11 and 1 of septic pyamia) for harmol tu treptonoc according t Schott maller method in 18 per ce t f th nes th 3 m re present \ nirols he exam ed normal puerperal women pregnant women and gyuecological cases for the same organisms. Among 56 normal puerperal women he found the hemolytic streptococci in 21 43 per cent in 23 pregnant women he found them in the cerva, in 27 30 per cent and in 32 gynecological patients he found them in 21 88 per cent.

An absolute diagnostic significance can theretore only be attached to the harmolyte streptozocci veither is their presence of any significance for prognosis. The prognosis however is much some fifthey are found in the circulating blood. To determine whether cottus favored streptozocci meletion he examined the preputual sineepins of 30 men with no gentral diseases and found harmolytic streptozocci in 6 cases. For prophylatric reasons, therefore cottus must be interdicted during the latter months of pregnancy.

Ahlfeld F: Origin of Endogenous Puerperal In fect on (Quellen und Viege der puerperalen Selbst micktom) Zisch f Gebu ish u Gynük 1913 izm

By Zentralbi i d ges Gyniik u Gebustsh d Grenzgeb

The author considers as endogenous all those infections wherein pathogenic germs enter the uterus from the vagina vulva and external genital organs but not from the examining finger instruments or dressing material Other possibilities for spon tancous infections are the development of septic endometritis from retention of the placenta or its dibns after an uncomplicated labor or abortion retention of lochia or infection of wounds when accidentally reopened with virulent lochial secre tion Endogenous infection after a preceding gonorrhera results less from the gonocorca than from secondary infection with streptococci Spontaneous infection has been observed in labors in which an interval of days occurs between rupture of the membranes and labor An endemic puerperal fever following angina diphthena scarlet fever etc might be considered as a metastasis which develops at the place of least resistance 1¢ the abraded uterine mucosa. How ver entrance of the infectious germs through the vaging is possible

Finally tofections may follow labor due to a reactivation of old parutierine pus infections as ovarian abreces pyositions or appendicitis. In the signa of almost all women streptococcs and other printogenic bacters are found. It is as present too official to give a collective account of all the possibilities as to the origin of puerperal face based on the lacters logy of endogenous fections. It is also impossible to determine a fixed line of demarca tion between endogenous and e ogenous or between pontaineous and imported infections. Since ag 11 er ampations has be been distensed with in

i il ex manitions ha e been dispensed with in il is 3 in hospitals purperal feer has not deseppeared nor ha the introduction of h water alcohol di infection of the hand and thorough cl aming of the gent in caused t to cease. The greater months of a see of uncertain ongin are greater number of a see of uncertain ongin are

probably best explained as due to the introduction of virulent bacteria into the gentalia either by the patient's own hands or by her clothing and bed hiner or by cleaning after defeation. Contrary to the fear of Bumm that by teaching the theory of endogenous infection a detrimental fatalism would develop inducing negligence the author explains that with the recognition of into steaching far greater demands are the control of this teaching far greater demands and the patient more exactly but attempt to do away with all the conditions which might lead to endogenous infection. Farsy-gase

# Jordan J F Vaccine Treatment in Cases of Puerperal Fever J Cl Research 1913 vi o By Surg Gynec & Obst

The author states that in a study of trenty-one cases of puerperal lever examinations from the uterine discharge demonstrated a streptococcus growth in seventeen which was quite distinct from other streptococcu. Also that in secondary puspieurite finid or sputum the growth was identical with that found in the uterine discharge. Bug gests that this might be called streptococcus gests that this might be called streptococcus colonies and is much larger than other streptococcus (produces said and clot in milk and in lactose glucose etc. but no change in rafl nose mannite and mulin. These reactions differ from the streptococcus facells in mannite and from streptococcus progenes in the production of clot in milk.

As the streptococcus puerperals 1 only found in puerperal cases it is unjust to blame the physician or midvife in endemic cases as the probable source of infection is in the intestine. Permeal and rectal operations not followed by infection are due to the fact that the surgeon insures drainage where there is a possibility of ducharge. After confinement with imperfect unvolution the cavity of the uterus furnaises a perfect culture medium the separating bridge of the permenum is frequently absent and the passage of the streptococcus from the rectum to the uterus is actually included.

In conclusion the author makes a strong plea for bacteriological diagnosis and vaccine treatment After the munual examination if the surgeon is not satisfied that the uterus a clear he can pass a blunt curette into the ca ity run it over the entire inner surface and swab with a piece of wool dipped in a dilute solution of bimodide of mercury I mally he inserts iodoform gauze for a uterine drain This should be followed by an injects n of vaccine con taining 25 or 30 million of the streptococcus puer peral s lie believes that the best results are obtained when an utogenous vace e has been pre pared by a skilled bacteriologist. He does not claim that when the patient has been profoun ily infected by the towns this t extment will bring about a recovery but he does ask that she should be given a chance to create an ammunity before she has lost her and adual rest tance ROBERT T CHING P

Saenger II: Sudden Death Occurring Shortly after Delivery Without Any Apparent Cause; and Report of a Case of Acute Pancreatic Necrosis (Ober pitzische klausch rätselhafte Todesurachen wahrend oder kura nach der Geburt unter Zugrundelegung eines Falles von akuter Pankreame-krosel Mincken med il chusch 1913 iz 132

By Zentralbi f d ges Gonak u Geburtah a d Grenzgeh

The author reports several cases of sudden death occurring in or shortly after labor where a careful autopay did not reveal the cause. He dis cusses a case of acute pancreatic necrosis occur ring shortly after labor and heretofore not observed

The patient was a perfectly healthy It para 26 years old who 15 minutes after a normal sponta-neous delivery was suddenly seized with severe vomiting, became unconscious and died clinical diagnosis of pulmonary embolism or eclampsia without convulsions was made. The autopsy however revealed an enlarged pancreas the second half and especially the tail being hamorrhams with no softening of the pancreatic tissue. The pancreatic duct was normal. The fat surrounding the pancreas was sharply differentiated Microscopic examination of the middle part and of the tail showed sharply defined round and wedge shaped necrotic areas In these areas intra acmous fat cells were found Microscopic examination of the liver showed in addition to numerous fresh necrotic areas extensive fatty degeneration of the Kupfer star cells

Etiological factors were the increased predisposi tion adiposity and alcoholism and above all, the trauma incident to labor. The rapid labor and the consequent change in intra abdominal pressure resulted in rupture of the pancreas. The changes in the liver were considered as due to the toxic action of the pancreatic pure in the blood

BENTRI

## MISCELLANEOUS

Kalmanowittich F Serious Anomalies in the Extremities of a New Born Child, as a Remit of Prejamacy in a Uterus Bloomia Dateoliis (Schwere Veräuderungen der Extremitien can Sta-gebrenen als Polge der Gehur bei Uterus Storma-monlis) Grad Russeita 93 % 312 By Zzaitzbil d ges Gyaks to Geburth a Geraugeb

The anomalies were as follows Both thighs were flexed firmly against the abdomen The contracture of the hip joint was so marked that the legs could be extended only slightly from the abdomen In the lines joints e tr me flexion also existed, but the contractu e here was not so firm Both feet were in equinovarus pos tion. Over both external malleoli pressure marks were present. Both upper extremities were freely movable but the right hand was n a moderate position of hyperpronation with marked contracture Furthermore a micro enathia was present so that the alceolar process of the lower paw was posterior to that of the upper 12W It was a breech presentation Examination of

the woman post partum revealed the fact that she had a uterus bicornis unicollis The head der cloned in the large right born of the nterus and the breech in the much smaller left horn

From this fact the author concludes that the anomaly of the uterus was responsible for the changes in the extremities

Heyn A.: Tumor of the Sacrum (Ste stumor)

Zinh f Gebarish Gynah 913 lmm, 469

By Zentralbl. f d gen Gynak u Geburish s. d Gennegels

The case was that of a II para, 23 years old In the second half of pregnancy abe complained of severe pains in the abdomen and in the back. Edema was present in the abdominal wall and the legs, and the urase contained albumin Rest in bed and diet resulted in the disappearance of the albumin and ordema but both returned later with increasing pain. Headache was severe. The condition became aggravated and increased doses of narcotics were necessary The abdomen was uni narcotics were necessary The abdomen was uni-formly distended Careful examination excluded twins but made out a head down in the pel is with profuse honor amou. In the fundus the breech was palpable with another mass alongside of it. The small parts were not palpable. A diagnosis of hydrammon single pregnancy and perhaps mal

formation was made Spontaneous labor came on during the seventh month of pregnancy When the cervix was obliter ated the membranes were ruptured and eight liters of liquor amnu escaped clear slightly yellow and without meconium. The small head was delivered spontaneously and the body also as far as the abdomen Then by severe traction the breech was brought to the vulva The short umbilical cord having ceased pulsating was tied and cut Labor did not proceed further as a large tumor an the sacral region prevented delivery Both legs were brought down, and in spite of traction from below and pressure from above no progress was made During the attempt to puncture the cystic tumor it burst and a large quant ty of dark, bloody fluid mixed with necrotic shreds, was evacuated mass then descended and was fin lly delivered, the placents following spontaneously During the puerpersum the orderna and anasarca gradually receded and on the tenth day the patient was discharged it that time there was ally as per cent albumin in her unne

The tumor was the size of a man a head and one mated from the region between the sacrum and the anus Its upper border was a a level with the sline crest Besides the cysts the tumor contained a number of nodules varying in size from that I a hazel nut t that of a first and of moderate consistenes It was a omplete mixed tumor an embryon t tumor of the Stolper's type characterized by absolute arregularity in the arrangement of the tissues. The cells were of no definite type. The autopsy showed no other maldevelopment except that the sacrum present d a dorsal curvature

as is common with such tumors. The presence of hydramrion was explained as lue to exudation from the numerous blood seed of the tumor LAND L

Kopilk: Infant Mortality During the First Four Weeks of I lie (hi lent rit hi t ind erst ben) T Internal Med Co ; Le d Leben

By Zentrall I f d gra Canak u Geburtah a d Cren reb Imong intra uterine causes of early infant mortal s y are hedentary pred position and constitutional d seases of the mother Inother group comprises those irlants for whom the cause of death is prema ture del very or birth trauma Artificially fed chil dren show a markedly higher mortality s at ties of the early infant m real ty in Furope and America and their relation to economic con litions ar I intimacy The infint mortality could be ons legably decreased by institutions for the care of pregnant women nursing mothers and infants and by more careful methods of obstetrical treatment

Reynolds 1 : Further I oints on the Sterility of Women J Am If it 1913 ht 163 By Surg () ec & Obet

and aservis

The author cons d is the causes and the tre tment of sternity of women. The treatment has I ng been a failure. The reason for the latter is that amptoms of all health of suff co at degree to demand treatment are always dependent on gross pathol gical tor it us ea ly recognizable while sternity on the other hand is usually depend at on m re perser sons f function which are not readily perceptible anatom calls and can be detected only by observing the altered phen mena of the dails physi logical function of the org n

The persons f phy 1 go which ause t nl it) in women are (i) Contition of the mucous r emirane of the genital tract lea ling to alt ration of the secretions I these mucose which are destructiet thee attaued life of the ova and spermatoroa which have been deposited in them, or which annul the effective m thity of the spermatozoin in its ed ris t reach the ovum (a) cond to us in the ares whi h inhibit the f rmation of the ovum or

I Tvert its release at maturity The al eration I the secretions which destroy th If I the sperm tozon a or perhaps of the turn are h. (1) to pathol great conditi n of th muchin m mt nee at h secrete th m (2) to e meal I log I or mechanial changes I the servete few ed touth by th mucou en mitrares These or the my n lethe four day one f the ger laru na grant cerescal spore la little the est horizontal lby Th fibre in a run be at small 21 tiri et th secret weath h rignat at eat tie nil et mel an upper secretion a most recount, miles am lat ab milt of Secort telanti at hits dutiged

Next the writer applies these facts to each of the ecretions

The alterations of the ovaries present in sterility are slight to moderate enlargements due to retention costs or unduly large peru tent and frequently cystic corpora lutea

The treatment varies depending either on altera tion of ecretion or ovarian changes. Altered vaginal secretions are of infectious origin with the exception of a profu ion which is the result of a general pelvic congestion and of those hyperscidoses which are a part of general constitutional hyperacidosis. The treatment [ flows along the lines indicated by these three chol gies

The character of the cervical secretion and its quantity are next investigated and the shape and dimen ions of the certical canal are ascertained Treatment of the uterine mucosa i executed by curettage and di infection. Its success is dependent on the coincident institution of free drainage. The latter is almost never effected by mere dilatation Defective drainage must be in hydrally treated The internal or is examined by a sound the tip of which is bent at an acute angle. I nexpected angulations of the canal and ext tence of bars and prominences in the mucous memi rane can be detected by pulling this hook carefully downward over every portion of the internal or and cervical canal. I is the operations on the cervix will remove any obstacles to free draininge The uterus is next curetted and the curett ge supplemented by thorough an I deep d sirfection f the uterine mucous membrare. The tubal condition is also benefited by the institution of free uterine drainage. If not then major pla tic operation on the tubes mu t be resorted to

Oranan infertility leman! resects us of reten to n cy to and persist nt c mora lute

II BA CHRIST

Lehrer 1 : A New Procedure to Determin Pel ic Measurement by Mean of \ R ys Clinical Investigations (I in run \ eri hrm sur untgenoler schen Beckenness | M | sche | Leer th gen) De tuker Gen uk f Grant Hie

By Lentral | | d ges ( vask Gel rt h d Grennerb The attempt to tak pelvic measurements by

man firys entnew The meth ! here tol re mit ed a r enter r t brodutels r latte omil ated fr practical application in o njuncti n with Desauer the auth reer tru ted an praratu i r i termin ng abela chi e met m a rem ith tru compet ar iter a rec pela ritl m r ithe aras To oftain ampha i ip m tory d tin th in on ficture impust in more control and in the control to the plat in the a read a police par all to the plat in the till the correct be partial a manufacture of the partial a manufacture of the partial a manufacture of the partial and t the with the of the rest : p ta lott pel 1 luni im me th \ rat tuler u leg ed raa pou 1 toth m le of the sartt li met r th

Hart D B: On the Duration of the Interval Retween Insemination and Facturition Elmb M I 1913 x 191 Rv burg Gyncz & Obst

The author sums up his article as follows

1 The duration of pregnancy in any mammal is not known and by our present means of invest ga tion cannot be ascertained

2 The initial date for the calculation of labor in the human female should be the first or first day of the last menstruction

3 Midterm quekening may be used for corroboration but is not rehable owing to mistakes the i may be made by the patient
4 Dates of labor in sufficient numbers plotted out

4 Dates of labor in sufficient numbers plotted out in curves ga c approximat frequent polygons usually skew
5 Tessters ewe labor curve is the best and is

given in 24 hour groups. The greatest number of labors in b sewe cases occurred between the 140th and 151d days. 6 In cattle Spenier's statistics in 2-day groups.

6 In cattle Spenier's statistics in 2-day groups give a skew frequency curse. The greatest number of labors occurred between 251 and 289 days (530 out of 764 caves).

7 Tessier's cuttle cases go an analogous curve 8 The date of labor in mammals is therefore a arying and not an exact one and the greatest number falls within certain definite days

9 Your assumentation or mensional labor period locs not necessarily mean a prolongation of the luration of pregnancy

10 The alleged greater size of the fretus in long incommation labor period 1 not accurately proven and it is not supported by Spencer and Tessee's results.

The uses of en of the cause of the meeting too hillow on men trual bloor dates as based on the probable dat of the meeting of the grunetes on each under The date of 1 bor and of a certain probable luration I pregnancy sail a the dark and the above explanation he has given he says must be can ulered el m t rv and certain to be expanded in the future That of 1 bor can be given as thely to occur with a a cert in number of d ys. chosed from a det is forts point. Son y T T GLIM

Schlimpert II und Issel E : Abderhald a s Resection with Animal Placetta and Serum (De bderhaldench Renkton mit Tierpsenta and Terretum) Muche med Wich in 011 kt 788 By Lentralbi i d ges Gynak u Geburtah d Grenzech

The authors treed shelehalden's rection with unman and are may net the placents of horses and sheep and in 8 experiments fairled to get the rection more than four times. They come to the following conclusions: (c) he pregnant horses and sheep iteratests crustate in the blood which decompose the placents of the wine species: (1) The fertal as well as the material part of the placents of other species.

ferments rorrolate in the blood which decompose the placents of the vine species (i). The fertia is a well as the maternal part of the placents of other species as also decomposed by these ferments (j). The in citing of the formation of ferment by rhornouse with su improbable in house and sheep placentic on the placent of the placent

Thomas E Biology of Colostrum Bodies (Zo Budgte der Colostrumkörperchen) Zisch f Kinderh 912 20 By Zentralbi f der Gypal. Gebartsh s d Genzerb

The author put coloatrum in capillary tubes with emulasous of different kinds of 1 ing bacteria. He found that both the polymorphonuclear and mononuclear coloatrum cells as well as the gran live

mononuclear colostrum cells as well as the gran it we bodies recembing reath is a feth had decided phage cytic action. This appears to excite the possibility of an epithetist argin for any colostrum cells, though that has been realizated recently. Both hinds that had been realizated recently. Both which power in contrast to those of the blood it which the pure innonuclears h e considerably less phagecytic actions.

Paramore R II The Intra Abdominal Pressu in Pregnancy Proc Ro See Med 9 3 Olst & Gynec Seet 20 By Surg Gynec & Obst

The outhor has been ed the pressure found in the rectum in pregnant and non pregnant women and believes that that pre-sare nervesed considerably pregnancy. In two cases suffers of from the towns of pregn say the figures binaned were counsiderably nervested over soorn! pressures as pregnancy as always much increased in toureness and base ad anced as mechanical from the Property of the pressure of

During pregnancy the bolominal muscles are cont mossly interhed and a result they undergo d generation regression (Bland 5 tion) they be come attriph of togeth: with the testion and the state of the s

# GENITO-URINARY SURGERY

# RIDNEY AND URETER

Lippens Spontaneous Perirenal Hæmatoma
(L'hém tome perirenal spontané) J de chi 1913
1 I B) Surg Gynec & Obst

Lippens article is based upon a study of reports of twenty three cases of this rare affection which he has been able to collect from the literature since the condition was first described by Wunderlich in 1856 as Spontaneous Apoplexy of the Capsule of the kidney

The pathogeness of the condition is by no means retian Obly fourtien of the trenty three collected cases were histologically examined and twolve of them had the lesions of acute neighbrits or chronic intertitial neighbrits. Two cases reported histologically mormal organs. In the majority of the cases the lesion consisted of a recent large perturnal harmations. Sometimes it remained collected under the capsule of the kidney more often it broke through this harmer spread through the issues and formed a doughty mass extending as high as the damphragm or into the pel is and resching the median hier. The pertoneum the mesentery the colon the abdominal wall and the scrotum have all

been infiltrated in some cases Lippens is inclined to accept the theory of Wun deruch namely that on the surface of a Lidney pre disposed to hemorrhage an artery ruptures and the blood escapes between the capsule and the kidney parenchyma Four eventualities are described (a) the extensive subcapsular perirenal hæmatoma when the capsule is loose (b) circumscribed sub capsular hæmatoma when the hæmorrhage is not forceful enough to dissect up from the kidney its unevenly adherent capsule (c) the extracapsular hamatoma when the suddenness and force of the hamorrhage rupture the capsule and the blood escapes into the penrenal tissues to any degree If this hamatoma is circumscribed and later becomes encysted it forms (d) the circumscribed encysted perirenal harmatoma. After the harmatoma has once become encysted many of the phenomena reported in the collected cases may be accounted for The wall may be partly formed by the Lidney parenchyma and assume secretory powers. The contents may undergo all the modifications usual to enc) sted blood may be serous or sero fibrinous or ma) form the penrenal hygroma external hydronephrosis is misleading

Th left side was affected fourteen times the right seven in two cases it was bilateral. Sixteen men were affected as compared to seven women. It attacks the young oftener than the old

The three cardinal symptoms e sudden violent

pant in the kidner, region soon accompanied by symptoms of internal hierontriage followed by the rapid appearance of a large tumor. Pain is generally localized in the kidney region. Sometimes, however it is spread over the entire abdomen. These pains every closely simulate appendiceal and gall stone pains. Occasionally there are repeated attacks of cohe for many months. Hemorrhage is shown by the usual signs and symptoms. The tumor forms monoth and regular. It can inhibit the respiratory movements and is almost immovable. It is dull on necrossion and very tender on palpation.

Another symptom which might and the diagnosis is a temperature of between 58 and 40° C. Exam nation of the unne usually shows albumin and casts but seldom blood from the hemorrhage Ureteral catheterization may be performed to rule only dromephrosis Sanguinous suffusion though rare by dromephrosis Sanguinous suffusion though rare the point of origin a seen to be the lumbar regions. Radiography is only useful in ruling out state.

A diagnosis of spontaneous perirenal hæmatoma has never been made before operation. It is most frequently mistaken for perinephritic abscess because of the fever which is usually present. It has also been mistaken for tumor of the spleen appendicitis and choices sixts.

The prognosis is grave Left alone it has invaniably proved fatal on account of hamorhage and the consequences which follow (seven cases reported). The treatment is surgical. Of ten cases in which

the conservative treatment of incising and tampon in a supervision of the conservative treatment of incising and tampon in a supervision of the supervision of the conservative of the conserv

Bruasch W. F. Clinical Data on Renal Lithiaus J. Lant 1 9 3 xxx 561 By Surg Gynec & Obst

This article is based on the study of two hundred and fitted here cases abowed that the classical symptoms of renal lithiasis were present in but 46 per cent of cases. The phenomenon of pain and its radiation is carefully analyzed. The phenomenon of pain was absent in 8 per cent of the cases. Brasic dwells.

Measurements on the skeleton were correct within 15 millimeter on the hiving purperal woman within 1 millimeter when compired with instrumental pelvimetry. It is easier to obtain accurate measurements during the early part of pregnancy when in the latter months good positives are hand to write in the latter months good positives are hand to let a supercite to send such cases to the clinic early e in before pregnancy, has commented. In those cases in which constructed polery early e in before pregnancy, has commented. In those cases in which constructed means of measuring the pelvic latter accounts indicated obusing to the dataset of unification and the construction of the construction of the same of the s

Hart D B: On the Duration of the Interval Between insemination and Parturition Ed ab V J 19 3 20 291 Ry Surg Conce & Obst

The author sums up his article as follows

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The duration of pregnine; in any mammal is not known and by our present means of in estigation cannot be ascertained
 The initial date for the calcul tion of labor in

the human female hould be the first or last day of the last men truation 3 Militerm quickening m ) he used for arrobo

3 Matern quickening m 1 to used 1 to probe
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4 Dates of labor in sufficient numbers plotted out in curves gave approxim t frequent polygon usually kew

5 Tesuer's ewe labor curve is the best and is if en in 24 hour groups. The greatest number of labors in h ewe cross occurred between th 140th and 1331d 35

6 In cattle spencer s stati ties i dy groups gr e a sk n frequency urse. The greatest indeof labors occurred between 19 and 50 kg (530

out of 64 axes)
7 Teveer's cattle cases at an nalogous curs
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duratio of pregnancy

10 The alleged greater size of the f riv ; long
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Schlimper: If and Issel I Abderhalden Re action with Animal Placenta and Seram (De Abderhaldensche Heaktson mit Terplaceur and Tierserum) Wie ein med Heister 1911, is

By Lentralid f d ges Cynth u Geburtsh s d Gernegeb

The authors tried 'Isolerhalden's reaccon with human and summla serum on the placents of homes and sheep and in 78 experiments failed to get the reactions more than four times. They come to the following conclusions: (1) la pix param loners and beep replacents of the same operes: (1) The fortial as will as the maternal part of the placents of other spoon as also decomposed by these terments: (3) The united of the formation of ferment by thomost. In supposition to hove you have placents of an account of anatomical hundrances: (4) Human & account of anatomical hundrances: (4) Human & are the most actively decomposed by it. Byour

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Paramore R ii The intra Abdominal Press to in Pregnancy Pres Ro Sec Med 9 3 Clas & Cyme. Act 20 B Surg (3 mc & Chol

The author has been defined the pressure found in the text in in pregnant sources and believes the 'tidat pressure' in pregnant sources and creves considerable in pregnant on the source of interferometric in the control of the source of the control of the contr

During pregnant the blommal insuries are not bound for he ber a result they underging training reson (illand S tion) they be recommended by the state of the stat

ing results (3) There are mainly functional diges-tive troubles \ephropexy gives excellent results (a) The symptoms are those of spinal and cerebral neurasthenia These cases are very hard to cure but a prolonged post-operative treatment may yield very encouraging results (5) The ymptoms are definitely those of mental derangement

Operative treatment is necessary in freely mov able or rotated Lidneys in cases with adhesions and those with marked local renal symptoms. It is important to consider the personal equation of the patient Patients over 50 ought not to be operated on as a rule Nephropexy does not cure the patient except when performed for purely local symptoms it only makes recovery possible

FARTON E GARDNER

Swain J Hypern phroma or Mesothelioma of the Kidney Bristol Had Ch J 913 XXX1 213 By Surg Gynec & Obst

The author of this article reviews the conclusions of the study of Grawitz in respect to these peculiar tumors of the Lidney and believes Wilson s conten tion that the theory of Grawitz has been success-

fully refuted by Stoers, on the following grounds
(1) The Grawitnan tumors most frequently develop at the lower pole of the kidney where adrenal rests are not found (2) the so called fat of the cells of the Grawitzian tumors is usually not fat but a vacuolation related to the contents of the tells (3) the Grawitzian tumor is a tumor of the renal cortex and not of the renal capsule, in which adrenal rests are usually found and that (4) though the Grawitzian tumors do frequently contain cor dons which however only remotely resemble those found in the suprarenal yet they almost invariably contain tubules the analogues of which are never seen either in the normal suprarenal or in the tumors of that gland

The author quotes from Wilson a article in which he says that these tumors are mesotheliomas or more definitely nephromas that is that they are elaborated from masses of nephrogenic tissue which have never become connected with the renal pelvis and which have never attained adult type in either

form or function

He further states that whatever the theory of origin of these tumors may be their clinical im portance and their malignant character is general He is not able to outline a very definite set of symptoms He lays stress on par in the back reflected along the thounguinal and thohypogastric nerves and early frequent micturition

Regarding the hæmaturia the author writes as follows

Sudden and profuse harmaturia is said to be a common symptom though I ha e not found it so and as the renal substance a gradually absorbed rather than invaded by the growth of the tumor and the renal pelvis is not necessar ly i olved there vems to be no reason for expecting hamatuma to occur but should it take place it would probably

be accompanied by some renal colic owing to the presence of blood clot in the ureter though the pain in the back frequently alternates with the occur rence of bleeding In this last respect the symptoms differ from the hæmaturia and pain which occur in association with renal calculus The urine presents no special features. A tumor is found presenting the characteristics of a renal swelling and later on metastases occur the general health of the patient begins to decline and the usual cachexis of malig nant disease ushers in the final stage

He lays stress on the secondary deposits occurring along the years and infecting the long bones lungs, and liver He notes that varicocele is a very common accompaniment of this tumor especially on the left side On section it shows vellowish patches mixed with hamorrhagic areas, some of which have a tendency to cast formation. The cells are of epithelial origin or epithelioid character and ar ranged in nests or columns. Histologically there fore the growth approaches sarcoma in structure in spite of the epithelial formation of its cells. He recites two cases one of which died four months after operation the second of which lived from May

8 1911 to the last part of July 1912
The author in conclusion emphasizes the necessity of palpating the kidney early in order to discover these tumors which frequently give no symptoms until it is too late. He notes that the growth is sometimes very slow and that the tumor may be come very large before having been discovered He states that 78 per cent of all tumors of the kidney belong to this class He believes that if operation is performed early enough a nephrectomy should remove the tumor before metastases occur

Foster N B : Funct onal Tests of the Kidney in Uraemia Arch Internal Med , 1913 m N 4 By Surg Gynet & Obst

The author calls attention to certain limitations of two popular functional renal tests in relation to diagnosis and prognosis in uramia. Uramia bas no definite symptom complex but is conceived as into mately related to severe nephritis and as represent ing 'the denouement of a pathological process dependent on renal disease or of which renal disease is an invariable accompaniment It follows there fore that the value of a functional test can be mean ured by the results in demonstrated cases of uramin In America the most generally used functional

test is that of phenolsulphonephthalein Ca es of uramia often fail to eliminate enough of it in the hours to permit of quantitative estimation. Such cases sometimes die and sometimes improve suf ficiently to leave the hospital Three notable exceptio to the test findings are emphasized Case 1 with a phthalein output of 53 per cent in two hours died one month later in uram a and autops, showed chronic nephritis, cardiac hyper trophy and dilatation pulmonary cedema and cere Case 2 with a phthalein output of bral ordema

at length on the value of the rathogram also calling steering to the fact that a regiographic spaylor screamon to the lace that a rannographic mission located in the region of the kidney does not necessari located in the region of the kidney does not necressing. It is brackering than the remail things. is in licate renal i things Inc general charactersstones appey are not strappe in the suppostative I'll stones which are not visible in inc radiogram. In some case it may be necessary in order to recently some case it may be necessary in order to recently a bealized challon to record to pyelography to be beautiful to the recent to the present Lesions of other abdominal organs may be present.

The author calls attention to the co-existence of the author caus attention to the co-existence of in cases of renal luthrash gall stones and scule and enrous appendiction value of lands, where the state in factor, where the state in Lidney stone are unadous and functional tests in Lidney stone are

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Symplementally cases of nephropies in y Der strenged in groups (1), There is object Con-servinged in groups (1), There is object Con-bustions in the control of the con-trol of nont not be forgott sphropest gives deappoint.

Itemale pel 10 reasons grams the calcul, were diagnosed by cystoscopy \text{\text{Nies}} of these calcul, were examined chemically and found to be composed of ure acid and urates The author recommends that cystoscopy be given the preference in the diagnosis of vesical calculi.

Bonn H K: The Differential Diagnosis of Bladder Neck Lesions India polis if J o 3 N 4 5 By Surg Gynec & Obst The author classifies these lesions as those relating

to the bladder the prostate the urethra those cases which may be termed extravesical and extra urethral and those due to spinal lesions Vesical causes are Vesical calculus papilloms and malig nant growths obstructing the vesical neck and in tense congestion of vesical neck, whether of gonor rheeslor other origin Prostatic causes are sarcoma carcinoma or tuberculosis of the gland and pros tatitis, when they produce the pathognomomic symptom complex also a calculus lodged in the urethra particularly in the prostatic portion Extravesical causes are vesiculitis appendicitis or salpin gitis with vesical adhesions inflammatory exudates. pressure of the sigmoid and abscess whether in the pelvis proper or in the Retzius space Extra urethral causes are persurethral exudates or abscesses and unnary extravasation. He states that a temporary dysuria is occasioned by dilating a stricture or per forming cystoscopy Tabes dorsalis is given as the spinal cause The author makes a plea for a very exhaustive history of the patient in these cases and a thorough conservative examination not doing too much at one examination The differential diagnosis between posterior urethritis hypertrophy of the prostate prostatitis, vesical calculi gynecological conditions and tuberculosis of the kidney is also con C R O CROWLEY

Viller A G Can the Urinary Bladder Empty Itself? Ed b M J 913 m 3 6 By Surg Gynec & Obst

According to Miller an acquired bad habit is not inferquently the cause of the presence of residual unne in the bladder. A man seldom passes water except when obligate to do so by a feeling of discomment of the control of the bladder of the control of the bladder of the control of the bladder empty itself by refer action but it the bladder empty itself by refer action but the bladder empty itself by refer action in the bladder of the process by voluntary contraction of the abdominal muscles when there is a great hurry and inside the process by voluntary contraction of the abdominal muscles when there is a great hurry and inside the process of the process of

The cure consists in training the bladder to resume its normal function. The author goes so far as to assert that the me method ought to be successful also in those cases where the residual utine is due to the presence of an obstruction along the urethra Faxrov I Campure

Keyes Jr E L. Ultimate Results of the Chet wood Operation for Retention of Urine N I M J 19 3 xcv 645 By Surg Gynec & Obst

Leves employs the Chetwood operation for the removal of all minor obstructions such as bars and contractures of the bladder and in some cases of prostatic hypertrophy where the patient a general condition is bad. He lays emphasis on the selection of cases, as one is likely to err first in operating upon patients suffering from painful or frequent urination but with little or no retention who would do as well without operation of the neck of the blad der second in attempting to relieve by cauteriza tion an obstacle requiring prostatectomy. The advantage of the operation is that it may be per formed under local anaesthesia takes only five or ten minutes and causes less shock than any pros-tatectomy. From three cases illustrating in complete relief he comes to the following conclusions. First if the retention is not entirely relieved a return of symptoms may be looked for Second other con ditions such as pyonephrosis may spoil what would otherwise be a cure Six of his nationts were left with incontinence of urine and seventeen of twenty seven patients were cured after periods varying from one to nine years. He expects to obtain a much larger proportion of cures in his next series of twenty five cases J RADDA

# GENITAL ORGANS

Caron M A Case of Malignant Tumor of the Testicle with Remarks Am J Urol 9 3 1 483 By Surg Gynec & Obst

Caron reports a case age 26 which entered the hospital with the diagnosis of pulmonary tuberculo-

A few days later an increasing enlargement of the testicle which was slightly tender was noticed. There were no adhesions or sinuses. A diagnosis of secondary tuberculosis of the testicle was made. The patient died one month later with choking parovysms and severe pain in the chest.

At autopsy the lungs were filled with circum scribed nodules about the size of a walnut but there wers no signs of tuberculosis The prelumbar lymph nodes were very much enlarged their surfaces were rregular and friable The walls of the aorta and vena cava were intact The liver lungs and kidneys contained almost the same material A microscopic section from the liver lungs and kidneys showed that these masses of cells were entirely different from those found in the prelumbar lymph nodes In other words these were the angioplastic cells described by Malassez in 878 but later recognized as syncy tial cells The cells in the lymph nodes were exactly like those which Chevassu called seminoma (epsthelial in type)

The testicle showed infiltrating regions in which both types of cells could be seen. The author behaves that the metastasis took place through the lymphatics to the lymph nodes and through the

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63 per cent complained of extreme vertigo and of per cent complianted of extreme vertigo and cramps in the legs. In 24 hours il to was coma and death occurred three days later Inatomical lagnosis Chronic nephritis small granular kidney carnine dilatation ulcerative colitis and exicus of Case 3 for a month there had been increasing dyspings and sacting of the abdomen The course of the drease appeared lieven days before death phthalein was 57 per cent but without prodromal symptoms the patient had a severe consult e seizure lasting one hour and thed shortly after The anatomeal of agnoss was Chromeparenchy majou aephritis large agnosis was Unionic parencis) matou aeparitis sarge white hidney cerebral ordema ordema of the lungs none among cereoral orderna orderna or the imper These three exceptions t the usual operation. I the phthalein test in nephr tis suggest to 1 over that its exerction may depend on some other factor (circultion?) than pure renal desect which by its presente or absence 1 termines the rate 1 secretion

In Germany in the last few years there is an by the kidney ever increasing inst tence on the significance of the non protein nitrogen of the blood in nephrits foster found the at rage non protein nitrogen in normal controls to be between 32 and 33 mg in 100 normal community to the netween 32 and 33 mg in 100 72 cases of unamua it was 87 mg per 100 ccm

Strauss believes that in parenchym tous ne phriti the non protein mirogen is usually low which loster confirms particularly in cases of wa en roster connerms partie tiari) in cases of purely tubular in ol ement in which the process b not been of long duration but it is occasion ily k not ocen or rong ourselfor higher also bigures under to mg in toocem of blood in these cases with uramia are not very exception I in my series lie cites are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cite are not very exception I in my series lie cit mg of non protein mirogen in 100 ccm of blood and whose 14 hour minary utbut wa between 500 and where 24 must urmary upper we between 500 and 8500 ccm with a trace of allium n and many casts Anatomical diagnost Chronic net hritis (extremely Anatomical diagnost Chronic net nittle (extremely small granular L i ey) redems of brain marked col tus uramia

Firth 3 L. Nephropexy Re tol Med Ch J. By Sunt Chief & Olut. The author states that the object of h communi cation is to express appreciation of the technique of

ensure is to caluers appreciation or the accumulation and at the same I me to mph size the f ct that in th oper tion great caution h to be taken to a or i an oper cam great caution a to occase u to a set a nount g the pleura. He further states that his reason a the pressa are surface states that the reason for passing from other sen answer section of anhoring the k ine) to the B il ngton method is the fact that the other methods seem to anchor the hidney too low He describes the B ll gr in method (1) Oblique incision beginning over the les nih

intercost i par (2) separation i the fat and permethine i se some di tance hove an i below the last rib (2). some a cance nove an increase the last in 13' of location of the hidney into the loin and sectors too of all adhesions and if t (4) defi tion of a fisp tion of all adhesions and if t (4) defi tion of a fisp tion of all active and a little than the poet h if of

the kidney two thirds of the flap being from the posterior surface one third from the anterior (g) posterior surface one third from the anterior of two supporting subcapsular sutures after the manner of Goelet and Brodel, into the lower half of the kidney the end of these being long enough to pass through the muscles and skin above the wound to be tied over gauze rolls (6) passing a and wound to be trea over game rost (a) passing a curved spencer Wells forceps through the eleventh intercostal space at the edge of the erector pun-muscle so that the ends of the forceps curve round the lat ril and project below into the upper part of the wound and (7) passing the capsular flap grasped in the forceps mentioned over the last nb graspen in the portion frammoned over the last no and ultimate the portion fram out to the capital surface of the kidney at the lower border. I the last The author further lescribes a case in which he had an accident. He opened the pleura in attempt ing to attach the kidney to the last rib as described

by Bullington and pneumothorax resulted Forty-e ght hours after the operation difficulty in breathing was more in thed respiration rapid patient rather dusky in appearance resonance on percussion from the right chest across the middle ine t slightly beyond the left edge of the sternum The abex be t was stall in the car line region

further dreplaced to the left In aspirator needle was therefore passed into the chest on the right side through the seventh inter costal space near the posterior axillary line and con nected with the vacuum made in a Winchester quart The air immediately passed into the bottle from the chest h the same moment the patient began to have a series of short coughs, rapidly began to have a series of short coughs, rapidly repeated and she became more dusty and dis-tressed. The vacuum as shut off and after a pause of half a minute or a minute the cough ceased and the communication with the bottle was re-estab the communication with the bottle was at the lished. More a r came from the chest and more coughing occurred b 1 not so much as before. The vacuum was again shut off and after a pauce aga connected with the chest and then the need aithdrawn as no more a r seemed to be obtainable astructure as no more at accent to be obtained from the pi ural ca it). The signs of incumo-thorax could not be el cited and the apex beat had come back at least a mich neater its normal post The patient would not confess that her tion the patient would not comess that are breathing was easier for another len minutes malescence was normal The author concludes by a 3 ng that he believes
the B lington operation for mosable kidney is a cry

good one perhaps the best ) t described

## BLADDER URETHRA, AND PENIS

Beer E The R lative Values of the Rbnig n r Line Righter values at the Kouts h Ray and the Cystoscope in th Distances of Vesical Calculi J 4m H ( ) 3 1 376 B) Surg (synec & Obst

The uthor states that n the radiographs of in his two ses of estal calcul the latter showed n only six cases In the teen negati rontgeno

grams the calcult were diagnosed by cystoscopy \text{\text{Ne}} of these calcult were examined chemically and found to be composed of uric acid and uractes. The author recommends that cystoscopy be given the preference in the diagnosis of vesical calcult.

Bonn II K The Differential Diagnosis of Bladder Neck Lesions. India pol II J 913 21 A15 By S 1g Gynec & Obst

The author classifies these lesions as those relating to the bladder the prostate the urethra those cases which may be termed extravesical and extra causes are Vesical calculus papilloma and malig nant growths obstructing the vesical neck and in tense congestion of vesical neck whether of gonor rhoral or other origin Prostatic causes are streoma carcinoma or tuberculosis of the gland and pros tatitis when they produce the pathognomonic symptom-complex also a calculus lodged in the utethra particularly in the prostatic portion Extra vesical causes are vesiculitis, appendicitis or salpin gitis with vesical adhesions inflammatory exudates pressure of the sigmoid and abscess whether in the pelvis proper or in the Retzius space Extra urethral causes are persurethral exudates or abscesses and unnary extravasation. He states that a temporary dysuma is occasioned by diluting a stricture or per forming cystoscopy Tabes dorsalis is given as the spinal cause. The author makes a plea for a very exhaustive history of the patient in these cases and a thorough conservative examination not doing too much at one examination The differential diagnosis between posterior urethritis hypertrophy of the prostate prostatitis vesical calcula evnecological conditions, an I tuberculous of the kidney is also con sidered C R O CROWLEY

Miller A G : Can the Urinary Bladder Empty Itself? Ed b if J 1913 3 6 By 5 tg Gynec & Obst

According to Miller an acquired bad habit is not indequently the cause of the presence of residual arms in the bladder A man seldom passes water accept when oblight to do so by a feeling of discommentary to the self-by reflex action but tries to expedite the protein by reflex action but tries to expedite the protein by reflex action but tries to expedite the protein by voluntary, contraction of the ab dominal must be when there are all protein the badder and must be the tries of the complete and the self-badder and tries the protein tries are action to the about the self-badder and the self-badder a

The rure consists in train g the bladder to resume its normal function. The author goes so far as to assert that the same method ought to be a cressful about those cases where the residual urine is due to the presence of an obstruct on along the urethra FAYOF OF ENVER

keyes Jr E L. Ultimate Results of the Chet wood Operation for Retention of Urine \ 1 W J 1013 Exhibits By S vg Gynec & Obst

Leves employs the Chetwood operation for the removal of all minor obstructions such as bars and contractures of the bladder and in some cases of prostatic hypertrophy where the patient's general condition is bad. He lays emphasis on the selection of cases as one is likely to err first in operating upon patients suffering from painful or frequent urination but with little or no retention who would do as well without operation of the neck of the blad der second in attempting to relieve by cauteriza tion an obstacle requiring prostatectomy The advantage of the operation is that it may be per formed under local angethesia takes only five or ten minutes and causes less shock than any pros tatectoms From three cases illustrating in complete relief he comes to the following conclusions I jest if the retention is not entirely relieved a return of symptoms may be looked for Second other con ditions such as propenhyosis may spoil what would otherwise be a cure. Six of his patients were left with incontinence of urine and seventeen of twenty seven patients were cured after periods varying from one to nine years He expects to obtain a much larger proportion of cures in his next series of twenty five cases I RADDA

## GENITAL ORGANS

Caron M: A Cas of Malignant Tumor of the Testicle with Remarks is J Urol 1911 1 483 By Surg Gynec & Obst

Caron reports a case age 26 which entered the hospital with the diagnosis of pulmonary tuberculo

A few days later an increasing enlargement of the testicle with h was slightly tender was noticed. There were no adhesions or inuses. A diagnous of secondary tuberculosis of the testicle was made. The patient died one month later with choking paroxysms and severe pain in the chest.

At autops; the lungs were fille I with circum scribed nodules about the size of a walnut but there wers no signs of tuberculous The prelumbar lymph nodes were very much enlarged their surfaces were irregular and friable The wall of the agrta and vena cava were intact The liver lungs and kidneys contained almost the same material A microscopic section from the liver lungs and kilneys showed that these masses of cells a re entirely different from those found in the prelumbar lymph nodes In other words these were the angioplastic cells described by Malassez in 1878 but later recognized as sy cytial cells The cell in the lymph nodes were exactly I Le those which Cheva su called seminoma (epithelial in type)

The testi le showed infiltrating regions in which both types of cells could be seen. The auth r belie es th t the metasta is took pil ce through the limphat is to the lymph nodes and through the

confidence of the patient and the masons for all treatment are explained

Tuberculus is given in most cases according to rule tus a rule a boullon filtrate supple de by Bidd with of the Suranac Lake Laboratory bung used its administered once a week, the initial dose lening soon to 600g mg. This is gradually increased to food or constitutional being earth filtrate food or constitutional being earth filtrate These latter have been rare and no untown of results have followed. Patients are urged to return once week and as the condulions improve the internal is lengthened? Patients are urged to return once week and as the condulions improve the internal is lengthened? Patient saw and temperature are taken each time and if there is an occasion a cheek examination to me to With the exception of oil. are citrily used. If the patient is under negation one currently used.

As to results at the time of writing there were ha I been performed which had been under observa tion for a varying length of time One case devel oped pulmonary tuberculous and left for home in Sweden in paor con his n Another had a tubercular a und genital tuberculosis and pulms nary chest involvement 15 months after operation The others all bowed improvement in weight general bealth, and unnary symptom some to a very marked extent Nine of the sinuses closed within a few weeks some remained open several month lat we have adopted the suggestion of the Viayos to close the nephrectomy wounds without drainage after filing them with salt solution. I we of these were so treated. One had a superficial harmatoms the other four healed by first intenta n There were also under observation a number of cases of genital tuberculous nine of which have been operated on for undateral or bilateral tuberculous epididym ti Most of these cases also h an improveme t but it is naturally not so striking as in the renal cases The authors do not attribute the improvement shown by these pat ents to tubercuba alone They d the k however that it helps the genito urinary eases There can be a doubt of the psychic val e

of the treatment for which the patients will return, thus enabling them to be kept regularly under observation for a longer time thin would otherwise be the case. They regard the good results as due to the julical combination of surgery hygiene tuberculin and consideration of the natients' needs.

Beer E.: The Use of Tuberculin in the Diagnosis of Obscure Conditions in the Genito Urinsty System Med Rec. 913 lx n 550 lby Surg. ( yner & Orst

The author again calls attention to the importance of the use of tubercula as a disgnostic a d' and deplores the fact that the important test is not more generally in use particularly to clear up the more obscure cases of renal prostatic and testicular disease in which the tubercul n lefuntely assists in making a diagnous. He quotes the statistics of loges who noted only 27 per cent errors in 7327 were ch scally tuberculous, all were positive to the tuberculan test Senser reports all tubercular cases positive in his experience. In Moeller's 8000 sanitarium cases a positive reaction was present in 00 per cent However the author wishes to make it clear that certain cases of tuberculosis may not react to tuberculin Nohr thinks a negative response exclu les tuberculosis but Beer takes ex c ption to this in the following statement general plus a local response is practically invariably due to a focal tuberculosis and such a response focates the diseased area. A general minus a focal response is of no practical value as the most careful examination ca not exclude tuberculous in other parts which may give the general reaction

The author does not recommend the use of tuberculas as a routi procedure in gentle unnary duesces, a he appreciates the fact that occasionally particularly a large zeries of cases unfrivorable reactions may if flow especially if the dosage in not caref lip guarried and the preparation in a grasse at length which will be of value to those interested in this subject. I is Kote.

## SURGERY OF THE EYE AND EAR

EYE

Coats, G: Anterior Ring of Opacity in Lens Following Contusion Opacity Rev 19 3 XXXI 295 By Surg Gyner & Obst

The case reported is that of a boy 12 years old examined eight days after being struck in the eye by a prece of clay There was no external wound but hemorrhage in the appense himor with clary and councityal injection. With transmitted one of the small ring was seen on the antenantic of the small ring was seen on the artistic against the same near the center made up of very fine granules. The outer border was sharply delimited the inner less so. The ring was only sandly seen with oblique illumination and appeared to have a brownish color. The opacity soon cleared and vision returned to normal

The description is characteristic of what is termed Vissuis contision in ag a case of which have been reported. Vissuis considers the condition an impression of the pupillary margin on the santerior surface of the lens it being either a change in the upperficial layers of the lens or a deposit of pigment granules squiezed out of the pigment epithelium of the ims. It has been supposed that this center of the corners is doubled in and actually forces the magazinit the lens, but the author considers that it is samply the sudden increase against the lens pressure which presses the micro.

Gradle H S : A Hitherto Undescribed An maly of the Macular Retina Ophih Rec 19 3 2211 591 By 5 'g Gynec & Obst

Gradle reports the e cases of an anomaly of the macular retina which has hitherto been undescribed the condition seems to be in the nature of a congenital malformati in not affecting visual acuity and activity and activity and activity.

and certainly it is not pathological
The ophthalmoscopic picture is alike in all three
cases although of varying degree. In an otherwise
normal eye the fonce is comprised of a slightly oval
area about the size of the dive of a da k red color
speckled with fine red points. In the center is an
exceptionally will demarcated discord yellowish
white fo call relies. The dark red fowers is surround
ed by a grayish red zone sharply demarcated on thoseal idea in gradually I fine into the surround
ing normal fundus toward the periphery. The
forced edges are clevin cut in deem to be as per
described to the color of the state of the
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of the color of the color of the color of the
state of the color of the color of the color
of the color of the color of the macula. The floor
comes lost in the denths of the macula. The floor

of the force as uniform and seems to be about one thard of a millimeter deeper than the surrounding lighter zone. It can easily be seen that this zone is composed parily of vague resiless light reflexes and parily of a delneate graysh opacity situated in the innermost layers of the retina. The rest of the fundus is normal.

The explanation of this condition seems to he in an abnormal thickness of the relina immediately around an otherwise normal fovea The clivus is unusually abrupt and the nerve fiber and ganglion cell layers are in all probability unusually thick

Sym W G Detachment of the Retina Pro duced by General (Edema Ophih Rev 1913 xxxxx 293 By Surg Gyner & Obst

The case reported is that of a gurl 10 years old in the last weeks of pregnancy with an albuminum; and general cedema. Visnon was reduced and the fundus was only slightly pale with a whitsh cedema of the return. The patient developed eclampian as the whours after emmantion and was delivered of a marked general cedema and at this time a large globular detachment of the upper part of the retina in both eyes. Three days later this had become reattached and vision was rapidly improving the contraction of the contraction of the cedema and the cedem

EARLE B FOWLER

P schel K Sclero Corneal Trephining for Glaucoma Calf St J Med 1913 xt 397 By S rg Gyacc & Obst

Pischel reviews the Elhott operation for glaucoma
He has performed trepanation nuneteen times on
fifteen eyes in nune patients the result being
Visus Better in 6 cases the same in 3 cases
worse in 3 cases. In three cases amaurosis existed
before the trepanation

Field Larger in 7 cases the same in 2 cases, smaller in 1 case. In five cases the field could not be taken

Tonometer reading Lower in 14 cases and the same in 1 case

Pischel uses the trepan (he believes the word trephine not the orrect one) in a dental engine and uses a guard to prevent it from entering too deeply

C G Darij G

Wyler J S The Trephining Operation in Glau com La et Cl 9 3 cz 432 By Surg Cynec & Obst

Wyler t kes up first the technique of Elliot a treph ning operation for increased ten ion emphasize ing the splitting into the corneal layers without button holing the flap so as to make the opening tar enough forward. He a locates a longitudinal split in an iris that may prolapse rather than an indectomy

The advantages as assumed up are r Fase with which the operation can be performed 2 Complications are rare 3. Danger of infection is sight 4. In most cases a round punt remains and mystles may be used later 3. Assignation is a negligible quantity 6. Present stati trea show the percentage of result superior to any one sante method.

The author described cases of I ficrent types on which he has performed this operation.

PARLE B FOWERE

## ear

Lothrop O A: Furunculosis of the External Auditory Canal The Use of Alcohol as a Valuable Aid in Treatment B on V & V J 1013 of 1 645 By h of Chee & Ol

The pathology of lurancles of the sternal autory canal is the same at that of bods on other part of the body. They are crused by infection of the hast follifier a 1 person are often pred posed to them by a m fife art discharge picking or seratching the ear by the termonal of cerumen and by sea bothing.

The usual treatment convi- of hot d uther wisks of earbol zed givenne and one or more in cisons in the canal. The m in object of the treatment ad ocated by the author is the con tant of infection of the canal and the pus thus presenting a reinfection. The treatment converts of the incuson of an inpecturante the formula the thorough clean me of the

ext canal and the invertion of a gatze packing all most to the eard frum and completely filling the canal. This gazze is kept most by frequent applies tons of sicholo or alcohol and horn send. The chief all aniagis chained for this method by the author are that reinfection of neighboring hair folicities is often prevented and this cases in the extra catal values are sometimes abortice.

I II SKILLS

Dench E B Report of Three Cases of Oritic Steningitis Treated by Drainage of the Ci terms Magns. Larynessey 213 sms 94. In our Corner. & Obel

Hench speaking of the operation of dra ming the cisterna magna for the relief of meningitis gives Cun minghim credit for first describing such an operation and this metals of professional the phononics.

and Haynes the credit of perfecting the technique of the operation from which much has been hoped He relates three cases in which he performed the Hypnes operations and though there was apparent improvement for a few days following the operations the cases terminated fatally the cases terminated fatally the cases terminated fatally the cases that we have not

Quoting directly his constituent have not cases (flows, "it would appear that we have not yet I knowerd a great procedure what will end the six to combat successfully that dread linear countries from the results obtained in such a small manber of cases. I have not hat to add regarding the technique of the operation and believe that the procedure should be gir ea a thorough trail but the results obtained from my limited expenses have certainly not been encouraging.

If Be the Brows

## SURGIRY OF THI NOSE, THROAT, AND MOUTH

#### NOSE

McKenzie D : Sinu his Fruiceran of the Frontal Sinus Operati e Trauma of the Dura Re-By Sun Lynn & Iret Sect. 182

The author reports a case of frontal inu itis with supra-orbital swelling but absence of n sol d scharge which required a series of four operation before the : u was obliterated During the first oper tion the periosteum elevator plunged through vers thin anterior and posterior wall injuring the dura and liberating a sinus full of pu. The 1 mm dural tea was exposed an I enlarged until cerebro-pinal flu I flowed freely and a gause drain was inverted 11 the second operation six needs lat r when a mod med killian operation was jone the dural t r FLE I SATT BOD was healed

#### THROAT

Gaugerot II and Queillen P Primary Sporo-trichoule of the Pharyns a New Form of Sporotrichoule of Mucous Membranes Diag noal Treatment and Importance ( poroin hose pharyngée primit form nou lle de spurutrichoses les muqueuses d'greet reportance méd le 1º méd q ; t temest By Zent Itl f d ees Chit ( resugeb

we man of 51 h ing in the country had ne r been sick bet she howed gn of hereditars syphils although he had ne r been uspected of having suberculous Loon complaining of disagreeable sengation in the throat and difficulty a s allowing he physician mal a diagnos of granular; harrigett and lived sod zed compresses Her condition in tal of improving grea a reslowly. The post mor phyryng at wall howed large ulcerated urf ce with irregular edges which extended to the right posters r pillar to within 5 or 6 mm of th 1 it post nor pillar est n led upward the force and a narrow projection ran t was rel toward the resphagus. The bottom is the ulce wa gr & h nd z led a serous flu i resemble g The gland a re not invol ed the sub-क्ष क्षा max that grand from sear is perceptiff and the most arcial tare nation lid not how any other les on fith it will the micro membran. The 14 fa w re normal

Another persal a believed a man a bereuless By n of the uthors lectded it was a m nor Not h g an ulture tubes he smed the nel le it in at test after a week the pat at

se has the sensures of attration total best when a not topped a proper

treatment and its ten lenes to ulceration in the late stages but it also hows that if treatment is not begun too late and the fold to treatment is well borne recovery is as rap d and complete as in cutaneou porotrichoves

This case is also a n w clinical type it is the first case reported of primary pharyngeal sporutrichosis without cutaneous lesion. The two cases heretof re published have been bucco phary need or lary n eeal porotecho-is with scattered cutaneous lesions

that aided in the liagnosi

The patient leed in the country and probable had infected herself from vegetal les contam nated with porotrichia. She either ingested them with insufficiently cooked vegetables of in cheming era v blades for a greater or less length of time the sporotrichium remained in the lucco pharynx in rea ing the sigulence an I sensit ting the organi m with its secretion. Finally it estable hed itself on the mucous membrane and ease rise to the local levon

The authors conclude that although there are secondary porotrichoses of the pharyngeal laryn geal nasal or ocular mucous membrane in the great may rite of cases of sportetrichost of murous mem tran the point of entry is from a conjunctiviti ngina pharengiti laryngiti or thin ti

] lite ve

Racteriology of Primary Acute Galema of the Latynx (He I referre utu inférieur primit f de laren it de ses triatem marchesi grques) 4 d M adu d fort lle 913 5 5 32. By J surnal le Chiturger

Bar report two cases of acut referrs which in m as of their mptom simulated the erapire atous laryngits lescribed to Ma ie There was an initial chill a series of alight chill submax llars I nopath, with pain in the region I hale con dition with ulien del r recence oscillations in the temperature varsing in degree at I recurring with a h attack of lema and attacks of ordematou of mmation ambulators in type In the fret case butterrolog I sam nation showed very nu merou pneumococci taphylococci serie strep-toroc and I tilla so bacteriologic samina ion treptococci s a oth r point of reemblance to resipelat in la yingits but the author recognizes the import nee of pneumocor 1 staphslocor 1 and spin la nd th ir arrow a westers in the ca sation of a fections rederns of the latyras from the therapeuta tandpoint he ter it that I dit a t

rul serum the po ha no yet demon trained to

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Apparatus for a esthesia by continuous atratracheal

insulfation and for anisathesia by means of mask and increased pressure. Giordano Gior d t accad di med

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## SURGERY OF THE HEAD AND NECK

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### SURGERY OF THE CHEST

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# SURGERY OF THE ABDOMEN

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#### Gastro Intestinal Tract

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# INTERNATIONAL ABSTRACT OF SURGERY

MARCH 1014

## MONTHLY COLLECTIVE REVIEW

## THE PRESENT STATUS OF THE RÖVTGENOLOGY OF GASTRIC AND DUODENAL ULCER IN AMERICA

By HOLLIS E POTTER, M D CHICAGO Radiologist to the Probjecton Hospital and Rush Medical College

THERE is probably no subject before the medical world, to day of more absorbing interest than that of utilizing the runtgen rays as an aid in the diagnosis of gastro-intestinal diseases and certainly of the various lesions in which bismuth X ray methods are proving of value the greatest attention of recent days has been focused upon the detection of ulcers in the stomach and duodenum and their sequelæ While the original work in this field was instituted abroad and the principles laid down by foreign teachers were accepted by Americans as a working basis the considerable amount of work done in this country during the last three or four years and especially during the last year has developed an experience among individual American workers which guarantees their ability as competent observers and has materially added to the sum of our knowledge of the subjects. Not only have superior technical methods been developed but new radiological facts have been established, and the significance of radiological signs previously in doubt has been determined In this particular field however there has continued to exist a wide difference in working methods and in the ngnificance attached to several demonstrable points, so that it seems justifiable at this time to review the recent records with the idea of obtain ing a composite point of view particularly of subjects or methods on which there is a diver gence of opinion Such a review should aid the general reader in obtaining a conception of the

present status of the rontgen method as applied to ulcer it should aid the beginner in developing a system for his work, and it should act as a warn ing to the casual observer that the subject as a whole awaits definite settlement

American writings on this subject are of comparatively recent date and are not so profuse but what a brief search in the library brings one into touch with them all The method followed in this review is to dissect or analyze all available articles which go into detail and regroup chosen excerpts from various authors, under topical headings which appear quite constantly in all the texts An attempt has been made to include enough of each author s statements to make his meaning clear and to avoid distorting his ideas by taking them out of their setting To note each observer's method of handling the subject and to obtain the fullest significance of these excernts one must refer of course to the original articles a bibliography of which is appended to this review

## GENERAL VALUE OF THE METHOD

How constantly in ulcer cases, can we close Y asy findings which are of relatine or about sassitance in arriving at a diagnoss. How cuty in the course of the disease will these Y ray findings appear? Will this depend considerably upon the location of the ulcer? Can we obtain more valuable data in cases of simple crossion or or cases where deformative conditions have resuited' Is the statgen method of more value magatine or in duodental utilen? What is the significance of negative findings in gratific and in duodental utilen? We the indings in gratific and in duodental utilen? We the indings in utilen cases sufficiently distinctive in their chreatest conditions to the made by this method alone? What can we learn from our 'N-ray study which would be of value to the surgeon in plunning an operation?

The following selected excerpts give answer to some or all of these quenes

CASAVA At the M yo CI cance I tule age the relation prefetch of as a rowtime of per cent of cases of enlipscalar cancer have presented changes recognized to by V rays. I general early the readological disposales by V rays. I space after the readological disposales agent, and the prefetches of probably the antifully interested in the future - Avoidiblation fig. the numerous card and not greatly and object along the future of the future of the control of

from jest occurrence. At present some I for holden my super of cancer or user a fast angenomate. Present. The exclusive of deadersal large start, whose the present of the

Leou I. The daymon I ga to ulere by th reatgen method to see of 1 greatest draners. The transe, at I likery of the sharmon way in early settly the extent to which the tomach has been ordered at the pathheard process. Simple tiers ordered at the pathheard process. Simple tiers ordered at the pathheard process. Simple tiers ordered at the pathheard process Simple tiers ordered at the pathheard process to simple tiers or the simple tiers. Heard process the simple tiers are the simple tiers of heard process that the proper technique at simple pathforming term if the callon type can be detected in the maje tray of cases when proper technique at simple pathcial control of the path of the process and the path of the path of the path of the process and the path of the path of the path of the process and are easily recognized.

recognized

CAST I the great majority of cases it X ray ex am aution is likely to prov. I great value especially when the findings re earef by toded a connection with other clusted data and differentiation between pyform and dundenal or gall bladue been on freque these of possible librogis in certain cases, especially the of sample pylotic or dundenal liet. It X y find age

may not be agnificant of anything other than the nor

In the present stage I development we are not justified in believing that the rontgen method of gastne examination const t les an early method of detecting gastne or duodenal leer.

COLE The negative or positive diagnos of postpylone ulter by serial radiography is equally as accurate the radiographical diagnoss of renal or oriental calculus

CO OPET The rentere diagnosis of desdetal ulcer has not ker t pace with the improvements in the diagnosis of gratine conditions by this method, in spate of the fact that it frequency of desdetaal ulcer is much greater than that of ga true tiles. This is largely due to the fart that it floothoom; c method has been too reclusively employed in this tuit of the desdetaal ulcer is much greater than that of the the desdetaal under the same of the same

In Billy 90 has unconcerned neversioner with the second of the control of the con

presence as surgical attorions, 50 were found to has educated utors either abuse or complicated with gastine atter with other conditions. I every one of these cases, recept three a pre-operative mutureal surgices was correctly made of duodenal accer or achievesors from heef."

or induces a serve of tonfessions from see? "Extract on In the final analysas the X-ray diagnosis of olers of the stomatch and doodenium is not and often cannot be smalled from the of section of any one point of the stomatch and tonders and the section of the s

The X ray offers most valuable assistance as a said in the diagnost. I profice uters and although this method is not yet sufficiently well developed to be relied upon lone without entering into the clausal aspect of the desease t is f the greatest diagnostic help in obscure

In descense where there is an excressive hyper modulty of the stomach with rapid evacuation of the content so that the greater portion of the gast contents is emptied within the first half hour there is hypermodulty of the disadisting with formation untilly of vacant area when remain as first? all of the animatory

The diagnosis of gastric ulter can only be made in certain situations that is when the lesion is situated on the antenor surface of the stomach and along the anterior surface of the lesser curvature. There is in the condition on excessive arritation from the ulcer with a constant an excessive irritation from the uncer with a constant hypermonthy, and a spastic condition of the pyllorus so that for the time being there is practically no expulsion of the hum th. It is only when the spasticity relaxes that a portion of the bismuth is expelled. In gastric ulcer what ever it situation we can always look for retention of con-tents. In certain metancies there is a vacant area in the frequently tendency to hour-glass pylorus there formation.

The X ray affords an almost absol te means of

4 The X ray affords an almost absol te means of differentiating between gastric and duodenal ulcer 5 By means of the X ray we can posit vely rule out the presence of a duodenal ulcer 6 We can determine approximately the degree of healing of an ulcer which cannot be as certainly deter

mined in any other way CHIFF DEPENDENCE PLACED UPON PLUOROS-

COPY OR RADIOGRAPHY The following paragraphs show a wide dif ference in working methods used to obtain the same final data. While the most common practice includes a variable combination of screen observa. tions and radiographs a portion of the writers would practically dispense with the use of plates and depend on screen findings alone Others

in an attempt to improve the accuracy of their findings, make screen observations only for the purpose of locating the exact field under suspicion and depend for their deductions on a multiplicity

of radiographic plates

LEOVAND. There is no question to which of these methods should be employed in the t dy of the gastronetsual tract. Both have their advantages of both their sphere of applicability. Serial radiograms possess the great value of studying the varying phases of the passage of benutih med out. I the tomach not through the consecuti e portions I the ga tro testinal tract
Case The X ray evanuation is esse tially finore

ecopical, rontgenograms being made only when required for purposes of record or comparison and when gall tones

CARMAN CARMAN Both fluoroscopical nd plate methods re-used in the study of gastric ulcers \marked preference is given to either one s th information obtained by each is somewhat different in character These methods therefore are not competition and both are used in routing in every case. Blost of the data howev r are rotuning in every case arous or the data moves are obtained during the screen examination two or more sub-sequent plates acting as check up for confirming or amphilying the data previously be used Ou total excreaing time for patient very rarely exceeds 6 e mm utes, because leasons revealed by the rontgen ray are relat by gross are readily seen ind appea quickly or not provided to the confirming time of the confirming time of the confirming time. t all

Core The method of diagnosing post pyloric ulcer employed by the thor in 500 cases, based on the recog nation by means of serial radiography of constant de amond by means of Serial randography or constant up-form by of the cap or sphinters or well by the undustion or creatingal contraction surrounding the crater of a ulter. These findings can only be recognized by studying and islands and collect. I have series of plates, and

either matching them over each other or reproducing them cinematographically Where a positive diagnos a usually of extensive lesion can be made by rontgenoscopy serial radiography is unnecessary, but in all doubtful cases serial rontgenography is absolutely essential before one is justied in making a negative diagnosis of gastric or disodenal

ulcer or carcinoma

We have employed the method of senal röntgen plates as first emphasized by Cole of New York
Plates are made at once firr meestion and at short
intervals throughout the first hour Most of the recent advances in gastro-i testinal routgen diagnosis hav of course been made in laboratories where the fluoroscopic method was largely if not exclusively used. The wonder ful results achieved in the field of gastric diagnosis seemed sufficient reason for using the same methods in the study of the duodenum The results, however have not afforded any starting support for this idea. In questions of fixa-tion of the duodenum by periduodenitis, the fluoroscope

does play an unportant part

SETYYEE The most successful exponents of radios raphy requ re the fluoroscopical screen to judge the correct time for the radiographical exposures. But why tak the time expense and inconvenience of the radiograph?

SYMPTOM COMPLEY AS OUTLINED BY HOLZENECHT

Before proceeding to any recent American classifications let us review a number of symptoms-complex given out by Holzknecht in Novem ber 1911 These symptom groups include some clinical as well as radiological signs and were found to be the most constant evidences in a large number of cases of verified stomach disease They were presented as outlines for study only and are not presumed to be comprehensive

Symptom Complex I Bism th residue after aix hours Normal stomach shadow on the screen

Achylia Diagnosis - Small caremona of the pyloru

Symptom Complex II resid after six hours

Marked defect gastric shadow Horn-shaped stomach Diagnosis - Carcinoma No stenosis Inoperabl

Symptom-Complex III

A residue fiter six hours

Bit ked defect of the tomach shadow in the para media or pars pylonica 3 Horn shaped stomach
Diagnos — Caremona of the tomach Operable

Symptom Complex IV

Small residue afte aix hours. Sensitive pressure point over the stomach hormal tomach shadow

Diagnosis — S mple gastric ulcer Oth sympt m confirming this diagnosi are

A tiperstal s

Disconnected by pylorus upward and to the left

Disconnected by pylorus upward and to the left

Stable transverse contraction

Stable transverse contraction

Changing transverse contraction

Symptom Complex V 3 Small bismuth residue after six hours.

Pressure point 3 Displacement unwird and to the left

4 Snail form of the stomach shadow Diagnosis — Old contracting ulcer on the lesser curva-

ture of the pars pylonica.

## Symptom Complex VI

Small hamuth residue after sur hours
 Pressure point and resistance in the pars media
 Transverse contraction of the pars media
 D verticulum without air bubble in the smaller curva-

ture, mimovable. Diagnosis - Callous ulter of the pars media

Symptom Complex VII

s Large sickle-shaped bismuth residue after in bours 2 D latation

Loss of tone Diagnors - Old stenous of the pylorus due to ulcer

## Symptom-Complex VIII

1 Large sickle shaped residue Marked defect in the filling of the pars pylones Diagnoss — Carcinoma on the base of a old steer with stenous

## Symptom Complex IX

t No bestrath readus after six hours z Marked defect in the shadow of the para pylonics or pars media

3 Transverse constriction of the greater curvature Dragnous - Cardnome, on the haus of an old ulcer Symptom Complex X

2 Stomach empty after my hours Head of the bis-muth comman in the spieme flexive of the colon 2 Shortmang of the stomach 5 Contraction of the cardia Diagnose — Carmonna of the pars cardiacs

Symptom Comple X1

t Stomach empty in six hours. Head of biam the column in the ascending colors. Stomach shadow normal

Pressure point moving with the duodenism Diagnosis — Ulcer of the duodenism

## Symptom Complex VII

Stomach empty after an boors Head of the bus much column in according colon 2 Stomach shedow normal 3 No increased peristalis ho i pensialis

No sensitive pressure point Hydrochloric and normal

Diagnosis - Normal stomach

## EVIDENCES OF GASTRIC LECER

It is of prime importance to note carefully the classification of ulcer signs given out by an author for such an outline not only includes a summary of the signs included in his diagnostic complet but shows their interrelation and comparative importance These outlines from recent Ameri can laterature standing alone, are not intended to be taken as a formula for \ ray diagnosis. but to show the author's point of view in handling the subject. The classification follows

#### Pf bler a Classification of Ulcer Signs z Ludence of perforation

(a) A projecting shadow out le of the gastric shadow (b) A gra-bubble lying box this collection of bis-

moth (e) Perseastric adhesions or involvement of other

(d) A palpable tumor connected with the stomach but not affecting the lumen

() The above may be associated with either an organic or spasmodic hour glass contraction of the stomach

(f) Retention of the hum th in the ulcer after the re-

mander of the stumach has been emptied (g) Res stance corresponding to the projecting shadow

I vidences I irritation due cither to a florid blort or to an irritable scar of an ulcer
 (a) Spasimodic construction
 (b) Retention of food beyond six hours

(c) Paul I pressure por t corresponding to the loca-tion of the ulcer

(d) Normal outline of the tomach Secondary effect usually associated with callous

ulor

(a) Pylone stenous and gretroctas!
(b) Fination
(c) Organic contraction bourglass
(d) Interference with peri table

Research

Reversed permatahis
A contracted lesser curvature with retraction of the pylotus town d the left

Ulcer Signs as Outlined by Carman Signs which are cardinal and more or less pathog

(a) Visualization of the bismuth filled crat t of a

callons ulter - the muchen syn b) The diverticulum I perforating ulcer

(a) The incusura Signs which are not determinative but merely suggestive of sictr
(a) Acute fish hook form of the stomach, with dis

placement to the left and down
(a) Delayed opening of the pylorus
(b) Localized perssure-tender point on the lesser

CULANTINE

(d) Residue in the stomach fter six hours,
(d) Lessened mobility
(f) Settling of the bism th to the lower pole of the
stomach, as is seen in hypotomicity or tony

## Ulcer Signs as Viewed by Lockwood

(a) Bestouth residue in the tomach air hours after the meal May be due to spazio, tumefaction or slight creative the pylorus, or to alony (b) A displacement I the pylorus upward ind to the left With ulcers on the lease curvature

(c) Hourglass contraction to t appears in all of a series of plates suggestive of id exerting (d) Distortion or displacement of the stomach by

adhesions it sugges

(a) A small purkered ma in which the ruger re distorted particularly when associated with a com-

eident pain pressure por

- (f) Chincal or radiographic evidence of hyperse-
- (e) Reversed penstable und cating extreme spas-
- ticity
  (A) Radiographic findings of ulcer, involving the patency of the pylone canal resulting in stenosis

#### Case a Classification of Ulcer S gas : Definite X-ray evidences of ulcer (stomach and duode-

- (a) B smuth flecks representing ulcer craters filled
  - with bismuth (b) Filling defects or abnormalities in the stomach
- (c) Organic deformities of the stomach oth r than fill ng defects a Inferential evidence

  - (d) Spastic man festations
    (b) Abnormalities of penstalitic waves
    (c) Abnormal emptying time of the stomach
    (d) Unusual filling of the duodenum.
  - (e) Pressure pain points

## INDIVIDUAL EVIDENCES OF GASTRIC ULCER

## I Pylone Steposis and Gastrectasis

Pylone stenosis caused by ulcer leads to a gradual dilatation of the stomach except in those cases, as pointed out, where a hypertrophy of the gastric walls is able to compensate for a moderate obstruction at the outlet From the following paragraphs a lucid idea may be gained of the radiographic picture seen in the atonic dilated stomach

Practice "Pylone stenous is commonly due to a con-traction resulting from a callous ulcer with which is assocated a progressive dilatation of the stomach. This is recognized by its size and by the retention of food. This retention gives a characteristic basin like shadow at the

language for the stomach
LEGNARD In uncompensated tenosis of the pylorus the residue is broade and drawn o t us the form of a crescent, and extends to the right and left of the med an I while the shadow of the bulbus duoden; is far to the right "

CARRAY A hypotonic condition of the stomach with settling of the bismuth to the lower pole while by no means consta to alexy is found sufficiently often to war

metats tunist 17 meer is tourn summering often to war rant its inclusion among the suggestive a gas Cast Distation of the stomach of varying grades is a frequent find og in chron e gastine and disodenal lear Marked gastne stams without distation is suggestive of a malignant bstruction

malgrant betruction
Mitta and Calana In son-obstructive uler the
stouch above a degree of stony often expected from
the control of the control of the control of the
pyloric ob truction in stouch occupies, a wellgetter will. This services positive to the control
position of there he so compensatory hypertrophy of the
positive will. This services positive for of the gustrepositive will. This services positive for the control
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pylonica d lating this portion and forcing it to the right giving it the prograthous undershot ppearance of a bulldog's jaw Such local dilatation indicates lack of ensation of this portion of the stomach and calls for surgical procedure regardless of the cause of the obstruction

## II Retention of Food in the Stomach

Aside from the delay in emptying caused by the organic obstruction due to ulcer and aside from organic constrictions of the lumen of the stomach elsewhere pylorospasm may or may not result in abnormal retention This spasmodic delay is shown to result also from extraventricular causes notably in disease of the gall bladder and appendix The absence of gastric stasis has been proven for many cases of gastric ulcer

The six hour limit for complete emptying is mentioned so frequently that it might be con sidered an accepted rule for all cases were it not for the fact that the normal rate of emptying varies in different individuals from two to eight hours depending upon the habitus of the individ ual and his attendant type of stomach. It is presumable therefore, that in the more atomic types of stornach a delayed clearance must be discounted

CARMAN "Delayed opening of the pyloru following the administration of bismuth water part from actual pylone obstruction is lmost invariably seen i ulcer of the stom ach associated with hyperacidity. This delayed opening is also frequently seen as a reflex from disease of the gall-bladder o appendix. A residue from the sax bour meal may or may not be found in cases of ulcer. It has occurred in about 70 per cent of the cases we have examined so far In our cases say hour residues were usually found with the perforating types of ulcer b t were rarely seen with callous or sample ulcers

Casz Gastric, not pyloric, ulcer not necessarily

associated with delayed emptying for n many gastric and duodenal ulcers the emptying time f the stomach after a bism th meal is perfectly normal I no some cases besmuth has been found in the stomach 125 or 150 hours f llowing the bism th meal. Smith et his recently reported over a hundred cases of gastne ulcer without delay in the emptying time. Ulcer 1 the body of the stomach rarely produces delayed most it.

LEOVARD Is alcers that he in the pylone canal or that e ghborhood the diagnosis must be based upon the obstruct ve gn The sprism of the pylonus is more mailed. There is a decrease—the motility and a large residue of bism to is left in the stomach filer six hours." LOCKWOOD U fortunately there re some astances of pylorospasm sees dary to chrome ppendicit s or irra-tative lessons f the gall bladder in which b smuth remains the stomach six hours after the meal.

If not accompanied by t mor formation or may be fund
Pranter

a therwise normal tomach retentio of food in the a therwise normal tomach retenito of 100d in the formach is on of our most valuable \$\frac{1}{2}\$ or of acute or florid leer. We they remarks to the formach is of closure of the poleras will be longe and as a res it the passage of the 100d from the stomach will be delayed. This spannodic retenito of the born the meal beyond six hours has been found when the ulcer is located high a well

as low Retention of food beyond six hours rarely occurs in marked gastropton without incer \*\* MILLS and CARMAN "So far as ulcer is concerned de-

layed motility indicates either an organic pylonic batruction or delayed clears ce from non-compensated hyper acidity or hypersecretion

## III Location of Ulcer by Painful Pressure-Point

Although most writers mention pressure sensi tiveness over the gastric shadow as significant of ulcer especially where penetration has led to perigastritis, attention might well be directed to the detailed explanation of pain and tenderness in gastric ulcer as set forth in Mills and Carman s original article. In it we find the reasons for certain pain phenomena, which seem confusing if not paradoxical without them. The following symposium gives varied opinions on this phase of the question

Painful pressure por t may at times be PPARLER PARKER I TAININ pressure por t may at times be located. If it is found to be over the stomach and to move with the stomach shadow t points toward gastric ulcar " CASE There is considerable value in my opmion, in palpation over the gastric shadow to localize the por its of

pain on pressure, but this pressure-pain point is not likely to correspond to the location of the ulcer unless there has been penduodenal or pengastric involvement with ad-

CARMAN The presence of a localized pressure sense ve-out on the lesse curvature is not very trustworthy as an indication of ulcer at that point Blany persons who have monation of uters at that point. Many persons who have no uters are sensitive to pressure us the ey partners Further climicans assure to that unless the partial period voteral lesions are not particularly paid 1 to pressure However such tender por t if definitely localized as entitled to connections in the final wamming up. Lizovizion. A point of tendersian of the pressure may be of the corresponding to the position of the ulter: when it is

situated anterioriy
LOCKWOOD A small puckered area in which the ruge are distorted is even more suggestive of older when the localization if the affected rea coincides with that of

local tenderness on palpation. DOES INCOMENS ON PROPERTY OF THE PROPERTY OF T Uleer of the stomach may exist MILLS and CARMAN gastratus secondary to ulcer

## IV Interference with Persitable

The study of motion in the stomach is accomplished most readily by the fluoroscopic method

Abnormalities in peristalsis are most likely to be intermittent and to require repeated thou h brief observations to disclose them. At one or another of these screen examinations a hyper peristalsis may be found and this is the preferred time to study the degree of elasticity of the stomach walls, the interruption of peristaltic waves, and the progress of food through the duodenum This data may also be obtained from a suitably timed senes of plates. The following authorities are quoted

Case When the depth of the perutalities waves is in creased, and when they appear more frequently than normal the inference is that there is some obstruction at the gastric outlet Peristalti waves may t one moment be practically absent and at other times so strong as to almost cut the stomach in two It seems that this may represent periods of fatigue and periods of revived activity

after recuperation from Latigue

Mills and Carman There are few afterences that we can draw from the variations of penstaltic motion such as there are are chefly connected with obstruct up ulcer of the pylorus Ulcer of the pyloric portion of the stomach if resulting in obstruction may man fest itself by most marked hyperpersials at some time during gas-tric digestion beginning high in the stomach and that acterized by increased size in the penstaltic bulgings and the fact that two or three such penstaltic waves may be in

progress at the same time
Prantize Interference with the peristalitic waves will practically always be found when the ulcer is indurated. A wave may be seen on both curvatures then be interrunted at the location f the ulcer usually on th lesser hile at the sam tune t may be seen to continue on the

greater curvat re

greater curved, re
greater curved are
greater to the control of the price streese, the atomach way furly writ. It and civry when
the atomach way furly writ. It and civry with
the motion t il may be observed it may period of rest
tarration. If the ulcer is located to crear one of the
turvatures of the trought usually the lesser, within the
turvatures of the trought usually the lesser, within the
point it is as assort that persists above, at the size
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will be found that the ficeted are does not contract.

#### Reversed Peristalsis There is still disagreement as to the frequency

and significance of antiperistalsis. While it is a phenomenon which would seem easy to make out during screen examination no two writers exactly agree as to its bearing on the question of eastric ulcer Some English writers consider it of so extremely rare occurrence as to be practically useless as a diagnostic sign Haudel who has given this point a great deal of study and who originally considered it a sign of pyloric obstruc-tion has gradually broadened his view until now he considers it a definite sign of gross disease of the walls of the stomach or duodenum He finds antiperistals a with considerable frequency The following show the various conceptions of this sign

Mills and Carmay It is not common and in the case observed by us, penatable has always originated at or below the ulcer level if indicated by an incisura even where this is quite low in the vertical stomach."

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suggestive but not conclusive LEONARD Antiperistalist is generally present in gastric

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Antiperistalsis occurs with comparative rarity Antiperstalize waves are pathognomonic I an organic lesson near the pylorus and frequently point in ulcer This phenomenon is best studied when the patient is lying

Esstorr "Antiperstalsis is frequently seen upon the MINISTRATE "ADDITIONALS IS ITERATED SEEN UPON ITERATION AND disappear in the part media. The exact significance of this phenomenon is not known it frequently occurs in pylose stemms, but may occur undependent. I this con

#### VI. A Contracted Lesser Curvature with Retraction of the Pylorus to the Left

The several succeeding descriptions of this condition give the reader a concise picture of what is meant This drawing of the pylorus to the left immediately suggests other mechanical conditions which displace the pyloric shadow

one of which is mentioned below by Cole Retraction of the pylorus t the left is t times formed and is likely due to the contraction of the

class convex any is nazely one to the construction of the leaser curvature caused by the disease form with displacement to the left and down is not uncommonly associated with ulcer as a res it of sear con-traction on the leaser curvature drawing the pyloru to the

LEGYARD Since the favorite sent of callous ulcers is upon the lesser curvature the contraction of their scar apan me lesser coverance can contraction or the issue gives rise to a shortening in the length of the lesser curvature. Haudek has pointed out that this gives rise to a dragging of the pylorius to the left and has shown that difference can be noted in the shape and position of the

residue in the sinus and in its relation to the bulbus

Minist and Carran Perhaps crook form would be more intelligible to us than small form the stomach being partendly sharply bent on tief it the junction of vertical said prioric portions Cartanoma, strictly localized in the prophotic portion of the tomach gives a somewhat sumilar popular portion control the tomach gives a somewhat sumilar portion period prophotic portion of the tomach sufficiency observable sum of the control of the contro

COLE Extensive agnesions, involving the right sact of the pars pylomica drawing that portion of the stomach to the right and straightening out the greater curvature the cup being of normal domenous but angulated of the sphincter being normal suggest gall bladder infection with or without calculu.

## VII. Perforating and Penetrating Ulcers of the Stomach

While much has recently been written in America on the subject of penetrating and per

forating ulcer the point of view and treatment is essentially in correspondence with Leonard's statement as given below. The extracts follow ing are selected to show such minor differences as exist and to amplify the subject for the reader's benefit

LEGYARD "The apparent ranty of the above mentioned ulcers is due to a lack of recognition rather than to the infrequency of their occurrence as shown by Haudek who first established their radiographic diagnosis. He has formulated their ronternological symptom-complex and signs as follows

2 A diverticulus-like projection from the stomach shadow usually on the leaser curvature
4 Movability of the basen in mass by palpation
43 The persistence of bismuth shadow at this point, at hemispherical collection of gas above this bismuth shadow.

5 The constant and marked contraction of the greater curvature of the stomach, at a point opposite to the shadow, approximating in form an hour-glass contraction "6 A displacement to the 1 ft of the pylone portion of the stomach especially noticeable in males, with a per-pendicular outline on the inght burder of the greater curva-The constant and marked contraction of the greater

7 A retardation of motibity so that six hours after the nigestion of the hismuth meal a large amount remains in the stomach. This residue is placed to the left of the median line when the ulcer lies high

8 Antiperistains
o Th presence of an acutely tender spot with a sense of resistance on pressure in the epigastrium in the region of the left rectus muscle This is frequently seen in ulcur

of the body of the stomach The symptom-complex for penetrating ulcer is the same as for perforating licer except that the symptoms are

less pronounced

It is of practical importance to remember that these
ulers while occurring most frequently on the lesser
curvature, may be found in the anterior and posterior

curvature, may be found in the anterior and posterior walls During the examination therefore the patient must be rotated from side to nide in order to bring ulcers in these positions to the profile of the stomach shadow Although perforating ulcers are frequently found in connection with a house place notineation of the stomach due to scar-tissue they are as frequently found without any to scar-tissue they are as frequently found without the contract of the storage patients. in penetrating ulcer varies markedy from that of per-forming ulcer Instead of the rounded diverticulum filled togsing more assess or the rounted order terminal many with bismuth and gas there is only a slight bad o spatishes projection from the profile o the stomach shadow Casz. One tartly finds a persentent b smuth fleck which can be proven to be a bismuth accumulation in the

crater or an ulcer The projecting abadow will be found to move p and down during respiration when the perfora-tion is anterior in connection with the liver but it will be ton a anterior in connection with the liver but if will be immovable during responston when the periorption and fixation have occurred in relation to the pancress. This bour glass deformty is usually partly spatis, and partly organic, the spasse being due to generate ulerr the organic changes being due to perspective afterious the organic changes being due to perspection from the contour of the change and the projection from the contour of the change of the projection from the contour of the change of the projection from the contour of the change of the projection from the contour of the change of the projection from the contour valuable age I it will usually be on the leaser curve are when found as rather easily recognized and us to imi-tated at least closely by any other condition that I know of?

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LEONARD A point of tenderness on pressure may be felt corresponding to the position of the ulcer when it is

situated antersorly

Locars com A small puckered area in which the rugar are distorted is even more suggestive of ulter when t calization of the affected area consider with that of

cal tenderness on palpution MILLS and CARNAN Uker of the stomach may exist and, in conjunction with it a localized pressure sensity point. If uch a spot be present it may fall entirely with out the X-ray shadow of the atomach and at the same time no other cause than ulter be present to account for its no once came man acter to present of actions can constitute of the finitely localized pressure-point may can that falls within the gastric shadow yet operation may reveal an ulere 1 a clustant locality. The tender point may coincide with the site of an ulere as determined by the plate or actern and subsequently at operation clier be found in a corresponding setantion. The pain and tender point of the plate of actern action of the pain and tender to the plate of the pla lound us corresponding solution. The pain and tender these due to patient cuter may organize from any or eil of counter. () General unbookused pain, occurring at definite times at it meaks, as due to intregative hyper tension plus special irritability of the ufter: () a localized area of pain or pressure assists tenes, as the result of reflex: () arrisation of the parental personnem by per-gateties secondary to these

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greater curv t re ELLECT I conditions associated with pylone steno-sis, the stomach may fairly writhe in its activity whereas no motion at all may be observed during periods of rest Earymore. If the ulcer is located at or sear one of the

curvatures of the stomach usually the lesser, within th curvatures as the stomaco manary the seaser, which the contracting part there is absence of perutakas at that point. It is an azion that perutakas is absent the are of my pathological lesion of the tomach consequently it will be found that the affected area does not contract."

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The several succeeding descriptions of this condition give the reader a concise picture of what is meant. This drawing of the pylorus to the left immediately suggests other mechanical conditions which displace the pyloric shadow one of which is mentioned below by Cole

PTABLER Retraction of the pylorus to the left is at times formed, and is likely due to the contraction of the lesser curvature caused by the disease.

CARRAN A bypotonic stomach of an acut fish hook.

form with displacement to the left and down is not uncommonly associated with ulcer as a result facar con-traction on the lesser curvature drawing the pylorus to the

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Minus and Ca MAY "Perhaps crook form would be more intelligible to us than small form the tomach being apparently sharply beat on uself it the junction of vertical and pyloric portions. Carmoons, strictly localized in the pyloric protion of the stormth gives a somewhat similar picture especially in the para pylorica, obliterated to the period of the stormth protion.

COLE Exte ss adhesio s, volvi g the right aide of th pars pylonica drawing that portion I the stomach to the right and straighten g out the greate curvature the cap be g of ormal dimension but angulated, not the sph neter being normal suggest gall bladder fection with or without calcul

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Prantes Retention of bremuth in the bed of the where after the stomach is empty may occur even when no projecting shadow is present. This is true when the ulcer is on the unterior or posterior wall. I believe ulcer cannot be directly shown unless perforation to a considerable degree has taken place

## VIII Spasmodic Hour Glass Contraction

Here indeed as a sum mentioned by all the writers, where confusion exists as to its cause and significance when applied to an individual case While frequently found opposite an ulcer and on this account con idered of prime diagnostic import statements included herein suggest frequent causes for this spastic notch other than the irritation of circular muscle fibers in continuity and force us to reconsider the underlying method of its production If as suggested it may frequently be the result of vagus scritations elsewhere, its importance in connection with gastric ulcer is correspondingly decreased. I'ven the effect of antispa modics on these incisure is so inconstant that in an individual case the differentiation between the so-called pseudocontractions the purely spasmodic contractions and the contractions partly spastic and partly organic, is difficult or impos ible in an individual case However the relative frequency of the sum and the case with which it is observed guarantee a more sats fying explanation of its bearing on gastric an i juodenal ulcer in the near inture

CARMAN The incidence is an indentation of the great recurrence usually in the vertical portion of the stomach pars cardiacs or pars media, of varying width and depth its production is believed to be due to the irritation of the elect causing a spart c contraction of the elecular muscle ener causing a spart contraction of the circular mostle fishers in a pialer perhaps, I some cases it is also due to infiltration and stiffcomp of these fibers. A true insuers of cirt equivable from a perstallir wave not only by its depth which is commonly great it than a perstallic con-traction, but I toly the fut that it does not more yelema-ward. It pervisa in spite of government or planta-tized effect the admit in these of beliefedmen to the pia-citated effect the admit in these or information on the piareacon after the some transport of personnels to the pa-tient. I be necessary occur not inference in which no where or other organic leven is found. They are probably due to spaces from refler causes. In appearance they resemble true accurate but they often move py lorustrant, and usually droppear on pafeatory may pulation or after

and smally disappear on palpatory man polition or after the seles virtuals of an tinge-toning of the greater LAVA \* query laborated inchange of the greater laborated in the selection of the greater laborated in the selection of the pathogramonae of gastific takes a tilt between the supervision of the selection cases in which such a spassic increasing on the refer curri-ture was proven by operation; i be associated with well marked duodeds aleer no gastine ulcer being found; i the site of the indrawing. Among other conditions is which this sign has been soled and where austicanced proof has been afforded of the absence of aleer on the leaser curvalure.

at the level of the indrawing, have been a number of cases as the event of the continuous, nave peen a humber of case of gill-stones carronness near the pylonis, possibility, and Cinven at each. In fact, it seems that this spatie individual is a bookined especially deep tome construction of the itemath the rest in of vagua irritation, and may be produced by any featon with of course a quantum of the continuous produced by any featon with of course a quantum of the continuous produced by any featon with of course a quantum of the continuous produced by any featon with of the continuous contin even though there be no perforation projecting shador not retention of hismuth in the bed of the ulcer. Value

deep spanmodic constrictions affect ng both curvatures, may occur in heurouse ubjects." LISTY The rapid neward reovement of these deep peristalist wa es, although they nearly divide the stom ach's contents, cannot easily be confused with an intermittest bourglass contraction, when examined fluorocopically although a radograph may gr. the impresses, exertheless, an internution thourglass contraction due to a tonic contraction, and therefore a vagus suggest, from what source is not known is often encountered in just such cases under considerat on where no stomach lesion of any cased motor consucrets in these no stemach lesion of any stand exists. That the contraction is spatic, even it hav-ing for some time, and not organic can quotify be deter mixed. The true spatic nature of the hour-glass con-traction may be revealed by letting the patient draw in has lower abdomen, by deficultate or by atrophas tiglections which influence the vagus. The houselass contraction, however med not be such of a fond condition, as the primore such section to be it is seen as well opposite the sate of a fond gatter ulter as of an ulter sare or it may be seen even at the point where a ulcer has been exceed

## I \ Hour Class Contraction

Being a definite deformity of the stomach it seems unnecessary to mention that a person m possession of the technical ability to elicit some of these other signs should demonstrate this one with comparative case. Before we attempted other work on gastric pieer and before we knew of spasmodic hour glass contractions the radiographical demonstration of organic hour-glass was well established. The former mistakes in diagnosis due to deep peristalsis spasmodic contractions and faulty position of the patient were excusable and 3ct to-day it is astonishing to see the prevalence of mutakes of this character It is concervable that in certain cases of malignant hour glass contraction no differentiation from a contraction following ulcer could safely be made by X rays afone

ELIMPT The more permanent the hour glass contestions to location, the more certain, it is no be revidence of a CLARSE. "O'Draine hour that on contraction of the ton-commonly the analyse accompanies the recommonly the analyse and the recommonly the analyse and the recognition to the commonly the analyse and the regiments when the first single-restanted from squared or functional four glass by the persistence of the former terminates from a first the administration of bellindman for two or three standards or after the administration of bellindman for two or three standards or the standards of the

LEONARD The benign hour-glass stomach is the sequel of callous ulceration of the lesser curvature of the stomac The contracting scar tusue draws the greater curvature of the stomach, that hes opposite to the ulceration over toward the thickened lesser curvature. It is because the uker a generally on the lesser curvature and the con-tracting tissue is drawn toward it that the connecting canal is typically found near the lesser curvature In con trast to this the canal is a tuated centrally in malignant hour class contraction

Cole The construction of the hour-glass tomach is Coziz The construction of the houseplass towach is usually sarrow having the appearance of a rm, with clear cut edges. It resembles pentitable contractors except that it does not beginn a procession of the contract of the hour glass tomach that one s not justified in making a diagnosis of such condition unless two complete series of fourteen to twenty four radiograms are made prefe ably sources to twenty tour rannograms are made precamy on subsequent day. In several cases much discredit has been cast on radiography because diagnoss has been based on only three or four radiograms and a deep pen stalluc contraction has been mistaken for hour glass stomach In ser es of radiograms the real peristaltic contractions relax with each diastole aid as they progre pylorusward they move up t the constructing ring which remains stationary

## EVIDENCES OF DUODENAL ULCER

As in the consideration of eastric ulcer it has been thought most feasible to make use of the various writers original statements transferring them in as complete a form as possible and arranging them in topical groups so that a resume of the best consensus of opinion possible may be obtained by a single reading

If certain points pertaining to gastric ulcer have seemed to remain unsettled the whole subject of duodenal ulcer from the rontgenological standpoint will seem more difficult, unless we conceive that there may be two general systems of approaching the subject both of which are adequate For we find running through all the appended material two general points of view of the entire subject each of which modifies all the statements of its advocates Practically two schools of workers have evolved one studying bismuth filled viscera with the idea of noting all signs known to exist in duodenal ulcer the other specializing on the intimate configuration of the duodenal and adjacent shadows with the idea of showing radiographically the direct effect of the ulcer mass or its sequelæ on duodenal outlines. The former school follows such a symptom-com plex as is given below the latter pays more attention to the classification of types of duodenal shapes seen under varying conditions, and has adopted several unique phrases to describe the gross and minute malformations which bear so strongly on their inferences As will be explained the latter school insists upon a multiplicity of radiographs made in series, if not cinematograph ıcally

The reader is therefore referred to the follow ing material which is self-explanatory and gives the authors meaning much more accurately than any possible restatement

## Pragres

Normal tomach shadow Increased penstalus Normal pylone outline A punilul pressure point over the duodenum

"Resistance at the pain point evidences callous uker

A remnant of hism th outside the duodenal outline associated with resistance and not easily movable, points to a penetr ting duodenal ulcer

(g) Constri tions and secondary dilatations not produced by adhesions from extraduodenal affairs
(a) Occult blood in the stool in association with the above evidence would point to an acute ulcer

LOCKWOOD () Up til displacement of the pylotic end of the stomach fixing t in oblique or horizontal

sstror. Intermittent pylonic contractions

indentations of the cap not caused by the descent of the second portion of the duodenum A shadow I bism th remaining on the cap after th stomach and remainder of the duodenum are

completely evacuated

Very rarely sharp contractions of the duodenum

Radiographic evidence of hypersecretion

GEORGE Signs usually emphasized -

Signs untury commission

(b) Gastine hypermolity

Signs of varying value and occurrence —

() Persisting flock of bounth in upper diodenum

() Handek a niche of penetristing ulcer

(c) "A tender point corresponding to the position of the duodenum

Stenosis f the duodenum with retention of

Fixation of the pylorus and first portion of the duodenum.

All the bove-mentioned s gns, if present merely support the clinical diagnous, but very rirely make to positive W believe that the cheef trouble in all that method up to now has been that too much releases is placed upon purely fluoroscopical findings. CASE

Abnormalities in the emptying time

"Changes a gastric tonus Spastic undrawing of the greater curvature of the stomach

the summer

A ubjective pain point corresponding with the
shadow of the duodenum Pressure pain-point.
Gastric periastisms normal except for changes in
rate and intensity Antiperistalism.
Filing defects in duodenal bulb
Perastent fleck of besm th in the crater of an old

(A) Duodersal stass

#### FVIDENCES OF DUODENAL ULCFR CONSIDERED TOPICALLY

## I Emptying Rate of the Stomach

CASE If the meal has not been a large one the stomcase If the mean man not prett a large one the soun-ach may be entirely empired within an hour when the meal is larger of layed polonospasm may be set up and a small residue remaining longer than such hours may res it. If the majority of cases duck emplying will be observed Doodenal theer cases which do not exhibit this quick emptying are those where actual intributed obstruct on exists as by creatricial con triction. Rapid emptying is also observed in chold the amperforated gastric ulcer with adhesions to the procress n extensi e gall bladder region adhesions and l early carcinoma of the pylorus,

where an infiltrating process renders the sphinter patent but has not yet produced actu I stenova. Hypermothity at first w. hi ater delay is suggest e of duodenal ulcer LEUNARD In superficial ulcer [ the deodenum the emptying time of the stomach is normal or decreased, in contrast to the delayed emptying in cases of gastric or

contrast to the drived emptying in cases of gastne or pylione user which produces a symm of the pylione, which Prantize (C test if used a statement). Not infrequent-tion of the contrast of the contrast to pylione user. I meaning the contrast to pylione user. Grossia. The question of whether or not there i stasts of the stomach siter at bours, ben the ducdenal utler is active or contrast at no singule one. There is always a bala ce between nervous and mechanical forces, which versiften case to case and of such a nature that tuseless titempt to predict from one case to another

Therefore while the presence of gastric hypermotal ty may help us diagnostically in case of suspected duodenal ulcer yet its absence, or even the presence of gastric stass does not rule it out by any means,

II Changes in Gastric Peristalsus

CASE "In case of duodend bleeration the p intalic waves may be perfectly normal. In case of system does other than sumple case of the case of system does the case of the case of the case of the case of the property of the case of the case of the case of the priors and duodenal sileer the pensaltic waves proceed class to the pylorus without handless of the smute in more marked Larovator. The persultate of the smute is more marked to duodenal than in guistric ulore and the pylorus opens

more frequently GEORGE Abnormally marked peristales is an important sign if t is found. Fraggerated peristales may be absent in many cases definitely proved t operation to

he duodenal ulce

## III Changes in Gastric Tonus

Case "The stomach is hypertonic or orthotonic in duodenal ulcer, but usually hypotonic or atonic in pylonic ulcer. M rked delay i the clearance of the stomach, associated with gastric dilatation is likely to be due t benign cicatricial obstruction in the majority of cases, pylone obstruction in the majority of cases, pylone obstruction with marked states without gastric dilutation is significant of a curcinomatous pylone obstruction

LEGYAND "The stomach generally has the hyperton form, the pylorus and greater curvature lying bove the imblicus. The stomach is not delated in it lower pole as in gastric or pyloric ulcer

## IV Pain Points

Case A subject pa post corresponding thather shadow of the duoden m is very agnificant. Pa or

pressure over the duodenal shadow is significant of the enal adhesions, and, though often due to completed duodenal ulcers may also be due to other causes, as, for instance holecystit's A case of uncomplicated duodenal ulcer probably will not exhibit any point of pain on pres-

LEOVARD LEGYARD A point of tenderness pon pressure is located over the bulbus duodens and the patient if asked to locate the point of pun, usually places the finer over

P7ARIZE "A painful pressure-point may be found over the duoden in and it abould move pward with the in-drawing of the abdomen (Haudrk) Resustance at the same location as the painf I point is evidence of a calloss

I is a "In duodenal ulcer a point of tenderness may correspond the the site of the bulbus duoden; shadow but this sign is only of value when it can be ascertained that the projected area belongs to, I e moves with the bowel.

#### Spastic Manifestations

Here we find the observation by Case of a spasmodic contraction in the stomach not in frequently associated with duodenal ulcer as was mentioned under the discussion of such con tractions in gastric ulcer The frequency with which Case has seen this warrants him in setting it down as a new sign often associated with ulcer of the duodenum In this connection he and Leonard make the following deductions

CASE "A speatur indrawing of the greater curvature is often seen t the level of an ulcor of the stomach. It was formerly considered that this speatur indrawing was pathognomous of gastin: lere at the level of the speatu-in suteren operated cases of doudeal ulcor this speature and a superior of the speature curvature was noted. In other cases of duodenal lucer the sign was absent or In other cases of stoodenal there it is sugar was attent or van hie In differentiating between sparam due to gas-tric ulter and sparam due to disodenal there it is observed that in disodenal for river as no gas pressure point over the stoodenal for the real possibilities of the stoodenal sparse or the stoodenal sparam of the continuty there is pala a pressure over the disodeneum and manupulation of the disodenal region increases the depth of the sparse indrawing Ladvian Sparams of the disodenium due to increase produce transment symptoms that are characteristic of their or mil strends, if it can be differentiated by their

menability to poropriate medical treatment

VI Person at Fleck of Bismuth in the Ulcer Crater Case Rare More commonly the duodental bulb reta as residue of basm it for some time after the atomach has been emptied, but this residue as larger than the crater of an ulcer and does not except in rare cases, cling t the alore crater."

PARIESE A remnust of bemuth outsid the duodenal cuttine, associated with reastance and not easily movable, points toward penetrat and guodenal alter.

Leovarm Penetrating fore of the duodenium is mirequere, and has addition to the symptoms of superficial ulcer the characteristic diverticulum outside the mornic labelong of the duoden.

ormal shadow of the duoden m, which persests as small noth fleck (ter the duodenum is empty " EGRGE This sign sometimes of great value, but t

is inferior to the more exact method of tudying the duo-denum that we describe later (serial rachography)."

COLE. "Rachographs made from four to six hours after the ingestio of bissouth and buttermik frequently show a depont of bismuth in the cap after the stomach, the re-mining portion of the duodenum, and the Justim are completely exacusted. This retention is most often observed in cases where the appearance of the cap in the plates taken moreduately after the bismuth meal is not normal. I believe that it is this retention in the cap which has frequently been considered an accumulation f bism th on the surfaces of an ulcer. In some such instances an uler of the stomach or duod: um may exist and the absence of penstalis in the cap due to adhesions will cause the compulation

VII Abnormalities in the Filling of the Duodenum Where the duodenal bulb persi tently fails to fill the indication is doodenal ulcer or periduodenitis, with not the nunctions as nonlectual test to berrance the same than been seen in parterante curronous. Sometimes dundersal ulceration causes a perastent filling defect in the shadow of the dundersal bulb. Unusual filling of the entire duedenum is a frequent observation cases of dundersal ration not only in observation cases of duodenal mitation not only in duodenal ulcer b 1: gall tones or penduodenal adhesions from y cause This unusual visibility of the duodenum is an indication rather of a patent pylorus than of lag in the

san undication rather of a nature pylorus than of lay in the modify of the dundenum. When th reciart attending duodenal ulceratore obstructs, the filing of the duodenum was a very characteristic, marked datemion of the duoden in a very characteristic, marked datemion of the duoden in a best of the duoden in the restantion of the opaque chypure in it for a longer period than normal, as the result of mild stenous, possibly suparadice, at the duodenous pass and particular possibly suparadice, at the duodenous plant purcture possibly suparadice, at the duodenous plant purcture result of the properties of the results of the results of the stenous, whether it is passible to the stenous, whether it is passible to carried the proposition of the majority of cases be defined to the stenous, whether it is passible to the results of the stenous, whether it is passible to the stenous the majority of cases be defined to the stenous the stenous that the stenous them of the stenous the stenous the stenous them to the majority of cases be defined to the stenous them to the majority of cases be defined to the stenous them to the majority of cases be defined to the stenous them to the majority of cases be defined to the stenous them to the steno

result from the contraction of a callous duodenal ulcer but amilar effects may be produced by other forms of ad-hesions, and therefore the evidence must only be con-

ered confirmatory

SOUTH COMPARISON.

GEORGE Stemoss of the duodenium may manufest that by retention of b am the Thin is induced by cicating the control thange or expain manufily to me point in the transverse portion. The great majority of duodenal utlers could be first portion of the duodenium therefore this particular man is of no value in most of the cases.

EXERN II the obstruction therefore is nearer the

phorus and construction interests a measure to phorus and within the first superior part of the duodenum, the principal factors upon which to rely are the aforessad phenomena of an overactive stomach, an open insuffi-cient pylorus and constantly falled bulbus duoden phenomena of an overactive atomass, as open cent pylons and constantly filled bulbus duodens. When the stenous has become complete there is sometimes seen from the pylons on continuous ingree the pro-percion to the point of tenous, which as said a radio-graph a II ply reveal. That there is really a spasm at the site of or directly above, a flond sileer has not been definitely proven

## VIII Constant Changes in the Configuration of the Duodenum

Extrorr The bulbus duodem has a constant and definite ppearance upon the plate during the systol of the pytion end of the stormeth, any stratutes of which within normal limits should recove due consideration in the sitespractation of the plate

What we are able t recognize in the duodenum is not the duodenal uler per se, that is, the actual nurcous membrane crossos, but we demonstrat on the hismith mass of controlal contraction tenosis perforation adhesions and penetrating effect of a chronic ulcer"

tion adhesions and penetrating effect of a chrone ulcer."

COLE. The indivation surrounding an ulcer projects
into the lumes of the cap causing displacement of businto the lumes of the cap causing displacement of bustin may be so annull that its proper on presents only a constant dent in one side of the cap or it may be so extensive
as to distort the I men of the cap beyond recogn tion.

The indirect may have been all I have been been displaced

distorting the other half. I is not a case the entrance on the muces of the pyloric sphancter is an important guide in det mining the center of the cap. The puckering from the creatrical contraction may cause a deformity equally segreat as the industrian. Indeed it s doubtful i done can det mine indocraphically whether the deformity is due to industation or adhesions, or whoch predominates II can rathograph out of fifty shows a periodicity symmetrical cap and normal pyloric sphancter as previously described, pyloric indications are proposed described, and the pyloric phancter as previously described, pyloric indications and the pyloric phancter and the pyloric phancter but the description of the pyloric phancter and the pyloric phancter but the description of the pyloric phancter and the pyloric phance. of the lumen of the pylone sphincter is an important guide but not drawn to the right, and the duodenal surface of the sphinter is pregular duodenal ulcer should be con-

Secretary Defects the duodenal bulb constitute one of the chief fontgemographe means of recognize of disoletular ducer and is complications. Falling defects in the disole-nal shadow to be mitrepreted as after should be differ-entiated from the normal defects due to hepatoduodenal ignment and the deformation of this bulb data to extra-duodenal pressure, as for mixtance, gail blader plood-duodenal pressure, as for mixtance, gail blader plood-tical pressure and the plant of the chief ploodvessels second portion of the diodenum, etc. The defects due to gall bladder region adhesions are very charac-tensitic the defect occurs on the gall bladder side of the bulb shadow but the bulb is otherwise anatomically

EASTMOOD "When the ulcer is old the adhesions exestrustion will produce marked stregularity in the outline. This irregularity is constant and persistent and is seen by preference on the left side in distinction to the right sided adhes one in gall bladder disease, but they may be general
COLE "The manner in which the cap has between the

gall bladder on the right and the common duct on the left, and the fact that slight adhesions prevent to normal dulta-tion must always be borne in mind. When the adhesions myolve the cap only it is asymmetrical contracted, ragged or absent I requestly small indentation is observed either on the right or left side of the cap. This may be caused either by pressure from the second portion of the duodenum where t descends from the top of the cap, or by the common bile duct which is in close proximity on the left. This indentation much resolute he This This indentation might readily be mistaken for an ulcer of the duodenum."

## RÉSUMÉ DEVELOPS INTERESTING FACTS

A survey of these excerpts brings to light the following facts

- In the hands of a competent and expenenced observer the contgen method may be of consider able service in the diagnosis of gastric and duodenal ulcer
- 2 The majority of observers obtain their data by the combined use of the fluoroscopical screen and the radiograph

3 There is as yet a sufficiently wide divergence of opinion concerning the diagnostic value of certain signs as to make the reader cautious in accepting the present views as final

4 There is more perfect agreement on the radiograal algors due to the mechanical deform ities from callous ulcers and their sequelar than on agns due to the irritation of florid ulcers or the irritable scars of ulcer

5 The lesions accounting for a spasmodic indrawing of the greater curvature are becoming more numerous. Is there an underlying etiolog

cal factor which will explain all cases?

6 In the study of the duodenum there have developed two schools of workers one the followers of the European waters, which takes cognizance of all demonstrable changes in motil ity mobility and configuration due to duodenal tiers and their sequeize second headed by Cole who believe that all post-poict sileers produce such an effect upon the duodenal walls as to make persistent changes in the configuration of the duodenal whalow This is to be recognized by a study of a considerable series of radiographs.

7 While it is generally admitted that the radiology of the duodenum is incomplete it would appear from the above citations that the percentage of accurate inferences regarding duodenal ulcer was greater when the method of serial radioratiphy was used. The literature would inducate that there will be no cessation of interest in this field during the present year. We therefore anticipate a great deal of progress and perhaps a final settling up of some of the disputed signs.

The next contribution of which we have knowledge will be from Carman is which be will present the radiology of duodenal ulcer with data from a large number of cases operated at the Mayo Clinic

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## ABSTRACTS OF CURRENT LITERATURE

## GENERAL SURGERY

## SURGICAL TECHNIQUE

ASEPTIC AND ANTISEPTIC SURGERY

Frank L: The Use of Iod ne in Abdominal Surgery Am J Obn N Y 1913 km, No 5 By Surg Gyne & Obst

Frank concludes from experimental work which has carried out on dogs that dodine should never be used inside the sholomen because it is toxic and produces adhesions and that when it is used for preparation of the abdomen the intestines should be protected from contact with the skin so treated to prevent adhesions forming. N. Sprank HEARKY

N SPROAT HEAREY

Saussailoff M and Telitachenko E : Alcohol Dressings (Über Spintusverhände) V ack Ges 1913 22, 2705

By Zentralbi i d ges Chir u i Grenzgeb

The authors carned out a series of laboratory septements to determine the damafecting properties of sloobd. They found that vanous kinds of bacteras such as tuberculous anthrax etc which were kept for as long as 24 hours under alcohol and then put in boulion showed abundant growth those kept in 70 per cent alcohol showed the least growth. In another sense of septements they found that the addition of a little ro per cent alcohol to the boullon prevented all bacterial growth the same result can be obtained by the addition of 5 per cent alcohol to do not per cent solone to the bouillon reduced to the same result can be obtained by the addition of 5 per cent.

The skin of several physicians and hospital attendants was washed with alcohol and small hits of the skin placed in a nutrient medium, only in the case of one laboratory assistant was there any growth of the bacteria in 20 per cent of the experi

ments with him there was growth

From these experiments the authors conclude that alcohol is not a dounderatin in the sense of absolutely killing the bacteria but that it hims their uncase and growth. After the conclusion of these experiments the authors tired alcohol dressings They were used at first only on small wounds stored in the control of the desired on large ones. A few patients complained immediately after the application of the dressing of a burning pain in the wound but this soon distribution of the course of two years over 100 con alcohol dressings were used with excellent results. Large and unail infected wounds healed by first

pieces of skin resulting from trauma were munming field without undergoing suppuration or putrefaction and infected wounds which were sutured recovered by first intention under the alcohol drawings. Suppurating wounds became clean very quickly especially when the alcohol was brought on contact with the whole without a brought in contact with the whole without a brought in an account of the contact with the whole without the purpulation in allowards and the following the wound studied and the surrounding slan are carefully cleanased with gatter dispersion of the contact of the contact

The authors emphatically recommend alcohol dressings in infected wounds and in cases where circumstances prevent the carrying out of absolute ascensis

Vor House

#### ANÆSTHETICS

Janeway H H Intratracheal Ansathesia from the Standpoint of the Nose Throat and Oral Surgeon with a Description of a New Instrument for Catheterizing the Traches Luryayzope 1913 zms 1052 By Surg Gync & Obst.

The author refers to the value of intratracheal insuffiction in nose throat and oral operations, pointing out the utter madequacy of the old methods by inhalation from any kind of cone and points out that the advantage of insuffiction is not merely convenience to the operators but that it is an evener and safer anasthesis He shows that pharyngeal insuffiation (masal or oral) has the same savantage and is usually much preferable to rectal savantage and is usually much preferable to rectal latter It has simplicity to recommend it while in intratrached insulfation in spite of its greater complications and the skill required in its administration it has in its favor the steady outflow from the traches of the air current helping to prevent inhalation of blood and mucus Intravenous anesthesia the newest attempt to accomplish the ideal method for these operations has much to commend The sum of the article is to introduce for over

Large and small infected wounds healed by first coming the thief difficulty in intratraches insuffin ntention without suppuration some nectot c than a new speculum for catheterising the traches This is a tubular speculum, electin lighted from dry cells in the handle developed apparently from the Jackson bronchescope and having strongs curve of the detail (larguest) and allow the course of the detail (larguest) and allow the larguest in the old the larguest which the catheter us that through it into place. This suspection is provided for by an indirect method with one unstrument a small miller or reflecting the larguest with another factories of the largue the larguest with the larguest methods and the larguest with larguest methods and the larguest ment is less for direct inspection of the largue ment is less for direct inspection of the larguest ment is less for direct inspection of the larguest ment is less for direct inspection of the larguest ment is less for direct inspection of the larguest ment is less for direct inspection of the larguest ment is less for direct inspection of the larguest ment is larguest mention.

very important before cathetenzing To emphasize this he describes some features of his intratracheal apparatus, which is equally adapt ed for ether or nitrous oxide and oxygen angesthelic vapor introduced directly from the apparatus to the trachea is vaporized warmed and moistened. Automatic interruption of the current providing for periodic deflation of the lungs the relative amount of other used is controlled both by the air passing above the ether and if desired through it A modified form of apparatus is sug gested to provide one small and portable for universal use One of the useful fields for intratracheal insufflation is gastro-copy as well as bronchoscopy for a smooth angesthesia is here indispensable for the best work FRINK W Pr 120

Hazeihutst F The Luhn Blethod of Peroral Narcosis. Laryspotosp: 1913 xxus, 199 By Surg Gynet & Obst

The nuther adds his experience with nine cases to the others recorded in using Katha's metal tube for operations about the mouth and nove. Thus method of intubating the laryon for anexthesia first published by kuhn in 1000 is with a fitchild metal tube of unique type hawing a firm handle held in one hand while with the other an intuitor resembling Of Dwyer's inserted through the

table introduces the latter into the traches and is then withdrawn. The results showed no many to microus membranes no baseness, occasional but isoment sorgess of threat and a satisfactory assembled. In one case of a child, the tube being too large caused obstruction to respiration and was abundous. France Wryczes

Braun II.: Use of Potassium Sulphate to Strengthen the Local Ansesthetic Effect of Novocalne (Über die Potenzerung der orlichen Novocanwurkung durch Kul umsallat) Zenbell f

Avocating (there are retentioned for onliners overaling durch Kalumanilat) Zentralid for 1913 21, 1313

By Zentralid I d 2es Chr u Grengeb

The author performed a series of experiments on himself and confirmed Rochmann a and Hollmann a assertions that the anaesthetic effect of novocame is markedly increased by the addition of potassium sulphate He does not however agree with Holl man a opinion that with the addition of potassium sulphate a o t per cent solution of novoca ne be comes as effective as a o 5 per cent solution without it for the anzesthetic effect of the former is much less and is not so reliable. He recommends, therefore that potassium sulphate should be added to the solution, but that the concentration of novecaine should be the same as usual. Only in cases where very large amounts of the angethetic is used the concentration may be reduced to 0 25 per cent Novocaine poisoning need not be feared even with the atronger concentration provided one bears in mind the read ness with which suprarents is deconsposed and uses only fresh solutions Beginning decompos tion of the suprarents is manifested by the red color of the solution Four per cent of potassium suiphate should be added If Hochster a novocame suprarenn tablets are used they should be dusolved not in physiological salt solution, but in a solution of 7 parts salt 4 parts potassium sulphate, and 1000 parts water Truckl

## SURGERY OF THE HEAD AND NECK

HEAD

Worthington T C. Fenyrems of the Frontal Sinus with Faposed Dura Cured by Oblitera tion of the Sinu Laryagershe 1013 xnu 073 Ry Surg Greec & Obst

A case a described in which the patient agod 3; and had trouble with han one as long as he could remember vas difficult nasal responsition especially on the right under with a great amount of mucus from the nose and masopharyns. For over two months previous to the operation he had useful to months previous to the operation he had useful to make the control of the

res days after the radical operation had been per

formed The author calls especial attention to the fact that mast irrigation was not used at the time of operation owing in his opinion to the danger I the irrigation fluid entering the orbit

In conclusion it is stated that this case shows the necessity of radical treatment of masal accessory sinus disease as repeated small enternal openings performed previous to the radical operation had given no relief. He reports the patient as well a year after the treatment. W. II Jamesov.

Skillern R II Untoward Results Following the External Operation on the Frontal Sinus; a Critical Review of Twenty Cases Layingsnope 913 zzus, 663 By Surg Cynec & Obst.

The results are taken from all the cases which had come under the care of the author the Killian operation having been performed in each case

The untoward conditions which may follow the operative procedure are enumerated viz

- I (Edema of eyelids particularly the superior 2 Paralysis of the upper lid
- 1 Continuation of the discharge
- Fistula or abscess formation
- Hemicranial an esthesia Neuralgia - (a) local (b) hemicranial
- 7 Deformity (a) sinking in of forehead contraction of scar (c) falling in of eyebrows (d)
- excessive growth of eyebrows (e) Leloid 8 Formation of pneumatocele
  - Temporary and permanent diplopia
- to Blindness on operated side r Edema of the eyelids occurred in every case and in one case with tuberculous history it was
- permanent and of a recurring nature 2 Paralysis of the upper hid was present in every instance immediately after the operation, and
- in two cases it showed a disposition to become per manent
- 3 The length of time the discharge will continue he considers depends largely on the extent of the sutencal intervention This discharge gradually diminishes in amount and consistency and in so per cent of his cases continued indefinitely despite frequent application of the various silver prepara tions
- 4 Fistula and abscess formation are classed as primary and secondary the primary occurring before healing the secondary being those resulting from reinfection and appearing long after the ex-ternal incision has healed. He reports two cases of primary and three of secondary resulting in abscess formation along the line of incision. Necrosis and breaking down of the ridge of bone did not occur in any of the cases
- 5 Hemicranial anasthesia occurred in every case due to the severance of the supra-orbital nerve This was accompanied by varying degrees of dis comfort the complaints being limited entirely to the females Sensation returned in every case the time required for the process varying markedly six months being sufficient in the majority of cases According to the author there appears to be some connection between the duration of the angesthesia and subsequent neuralg a and he thinks that in all the cases in which the hemicranial angesthesia was unduly prolonged neuralgic man festations sub sequently appeared
- 6 He considers neuralgia as one of the most annoying sequelæ It occurred in seven of the series but in only two cases were the symptoms severe enough to require surgical interference. In one despite resection of the nerve the neuralgia re curred
- 7 In the classification of the series there were thirteen practically undeformed in four there were slight depressions over the operated eyes and some contraction of scar tissue along the descending incisions, due to reinfection. In two cases the result was not quite so good one due to a marked depres

sion above the eve the other to a persisting ordema-Another case showed considerable deformity due to the depression and scar tissue contraction as a result of tearing of the skin during the operation

8. The formation of pneumatocele in two cases was noticed on blowing the nose at the time of the first dressing Firm bandaging caused this to disappear

o Diplopia was present in fourteen of the cases on removing the first bandage this disappeared in

the majority of cases in a few days. In eleven the diploma had completely disappeared at the end of one month in one case it lasted for nearly four months and in two it appeared permanently to Blindness on the side operated on occurred

in one of the latter cases in which the disease in volved the frontal entire ethmoldal and aphenoidal sinuses There was nothing unusual noted regard ing the operation and it was only on removing the first dressing that the eye was discovered to be sightless The blindness was permanent The author advances as possible explanations Fracture into the optic foramen (2) the optic nerve may have become surrounded by an extravasation of blood which became organized (3) a dehiscence may have existed in the sphenoidal sinus and the optic nerve sheath was injured while opening the sinus he considers the latter the most plausible explanation He refers to two similar cases reported by Knapp and Freudenthal and reviews the cases ın detail W II TAMIESON

Pussep L. M Radical and Pallisti e M thods Operation for Brain Tumors Based on 24 Cases by the Author (Die radikalen und pollin tiven Operationsmethoden der Hirntumoren auf Grund emes eigenen M terrals von 24 l'allen) Verkandl d XII Kong russ Chr 1913

By Zentralbl f d ges Chr u i Grentgeb

The author reports 24 cases of his own operated on during the last two and one half years recent cases two months or less after the operation are not reported Radical operation was performed 15 times 5 times trephining was done for decom pression and in 2 of these cases there was permanent dramage of the ventricle. In the cases of radical operation the tumors were localized as follows 2 m the motor cortical region 1 in the centrum semiovale z in the temporal lobe and z (a cyst) in the pineal gland Once there was a diffuse tumor formation noted in the dura and cerebral cortex.

There were five cases of operation for tumors of e cerebellopontine angle There were two tumors the cerebellopoutine angle of the vermis of the cerebellum and one of the pons and the left hemisphere of the cerebellum As to the character of the tumors there were one en dothehoma I glioma 8 sarcomata I carcinoma, 3 cysts and I fibroma The radical removal of the tumor was accomplished in 11 cases of these 6, or 55 per cent recovered One of these however died five weeks after the operation Of 4 tumors of the cerebrum s died of pneumonia three weeks after

the operation of 6 tumors of the posterior fossa 4 died. In cases where there is great pressure on the brain and radical removal cannot be considered Pussep recommends permittent drainage of the visitnicle according to the method described by

him
He comes to the following conclusions

Even deep scated tumors may be removed radically if they can be accurately localized. In tumors of the cerebellopontine angle the removal of the bone is to be preferred to the osteoplystic method, as the mortality is less. Tumors of the pineal glund are accessible to oberation.

Pussep believes that palliative operations should be decreased in favor of radical ones and that operations in the postenor fosts of the skull should be performed in two stages even if the general condition is sood but that operation in one stage is nref

erable for the cerebrum

Frazier C. H. and Lloyd J. H.: A Case of Tumor of the Hypophysis, Partfally Removed by the Transfrontal Vethod of Approach. J. Am H. Ass. 913 lzl 1616 By Surg. Gynec & Obst.

The hypophysical case here presented as note worthy because of the absence of a distinct cachera, of either acromscally or of dystrophia adprosogent islas, but with pressure symptoms, manufacted by blandness with headsche and vomiting and present ang under the X ary erdence of a pinutary tumor Fam in the I mbw was an unusual feature and the authors conceives it to be due to pressure on the pain

tracts by the pituitary lesion When preparing for the transfrontal approach to the hypophysis the size of the frontal sinuses is studied by transillumination and the röntgenogram though the latter has been found unreliable The smaller was selected and an incision was made following the supra-orbital ridge from the external angular process to the median line The second lumb extended upward in the median line one inch within the hair line and the third ran within the hair line to a point on a level with the external angular process. An osteoplastic flap was then reflected and the frontal lobe exposed the latter being retracted upward and a wedge-shaped section of the supra-orbital ridge was removed. The geur forceps down to the optic foramen and the dura incised a distance of o 5 cm above the base of the skull from one anterior clinoid process to the other A soft reddish mass was found filling the sella turcica and this was in part removed. The bone flap was then replaced and the external wound closed.

Histologically the tumor proved to be sarcomawith telangueratic characteristics. During covalescence there was marked cedema of the face, and pain was present in the extremites and thoract for two weeks. The blood pressure which was lowwas not affected in the slightest by either pituits extract or emperprim in cont nured and secending doves The advanced state of optic strophy pre cluded any improvement in vision

The authors wish to emphasize the advantages offered by the transfrontal route in the fichity of exposure the pipotrunity of determining with some accuracy the extent of the tumor the avoidance of contamination by the nasal secretion and the stilended cosmetic results.

#### NECE

Barthélemy and Fairise: Branchial Epithehoma Invol ing the Submaxiliary Giands (Frahéboma branchial du cou inci dans la glande soumaxiliare) Res said de l'Est 9 3 x 1 501

maxillare) Res med de l'Est 9 3 xl 501
By Journal de Chruspe

Barthélemy and Fairste report a branchia epitheloma muolving the whole submanillay mada in a man of 48 The tumor which was as large as a piccoa egg had been noticed two months before and diagnosed as adentia It was incised and found to be filled with a lyoud resembling pos, but there was no solid issue and no cystic will. The there was no solid issue and no cystic will The the control of the control began for the control but very soon illeration began first appearance of the tumor the patient died of pharpygeal beamorrhage

Lxammation of the material obtained by circulage showed an epithelioma of the intraglandular pavement type. As there is no epithelium in the submanilary which could give rise to a pavement epithelioma; it must be assumed that it was of

branchial origin

Intraglandular branchial epithelomas are very rare. The authors could find only one other authentic case that reported by Fredet and Chersau in the paroid. In a great many other cases reported there was only secondary invasion of the gland. The real branchial epithelomas develop from the epithelial debris of the primitive branchial delt.

Thus case shows the extreme malagnancy of these tumors, which ulterate and setted very rapidly and are accompanied by a very intense inflammation of mail tumors of the necks which are generally diagnosed as adentias and are sent to the surgeon only when mal guancy as off and tumors of the necks which are generally diagnosed as adentias and are sent to the surgeon only when mal guancy as off and they are other and the sent of the sent

Furrant R ilyperthyroldism its Experimental Production in Animal Brt II J 9 3 n 1363 By Surg Gynec & Obst

Thyroid feeding was carried out in cats rabbits, guinea pigs and dormice Fur changes were prodated loss of weight bodily weakness durrhors tachycardia occasional glycowam desappearance of lat muscular wasting degeneration of the heart her and kidosys enlargement of the sistest Glanger hans and hemorrhagic changes in the intesting No exophthalmos was produced and no changes were produced in the ductless glands or lymphoud system MS illuvorssov. MS illuvorssov.

Von Wagner J Surgical Treatment of Hypothyroidism (Über chrurguche Behandlung des Hy pothyroo damus) Ween his Webneth otz xxvi 1532 By Ze tralbi i d ges Chr u Grengeb

In experimental transplantation of thyroid glands Schiff the experimental founder of the theory of hypothyroidism showed on dogs that the thyroid gland tran planted from other dogs can for a while take the place of the one removed though after a time the transplanted gland is absorbed Esselsberg obtained results in cats only when he operated unilaterally that is he first removed the thyroid on one side of the neck and transplanted it somewhere else and then after some weeks extir pated the other half Tetany occurred only when the transplanted gland was afterward removed Later experiments showed that the transplant took only when it was from the same animal - auto transplantation. It has not been proved with certainty that even in autotransplantation the transplanted gland remains capable of functionating Accessory glands and the necessity of a long time for observation complicate the question gave an indirect proof of it by showing that a part of a gland transplanted successfully into the trans parent ear of a rat hypertrophied when the other half was removed

Kocher's attempts in cacheria strumipriva to transplant human or animal thyroids intrapento neally or extraperatoneally (heterotransplantation) resulted in only transitory improvement of the symptoms Bircher too twice transplanted a human thyroid on a 20-year-old girl with only temporary results The pieces of thyroid ne er functionated but only caused temporary improvement by the substance being absorbed This fact suggested to Murray the idea of treating myxorde ma not by transplantation but by subcutaneous injection of a glycerine extract of the gland which could be absorbed This was the starting point of internal thyroid therapy Autotransplantations in human beings take and after a long time, show nor mal histological structure of the gland (Cristiani) Therapeutically however the results are not good Von Payr reports the most successful case in which he tran planted the thyroid gland of a mother into the pleen of a child with infantile mysordema There was rapid improvement at first but it did not continue

The resume of results shows that heterotrans plantation generally fails, and that autotransplantation would have an object only in total extirpation

of a golter Since such a procedure is only resorted to in case of malignant new growths, autotransplantation cannot be considered in these cases.

In the consideration of operative measures on the thyroid gland the authors point out that in the partial resection of an exophthalmic goster more glandular tissue often remains than is possessed by a normal man There are cases of exophthalmos however without a large goiter. It is not correct to assume that the amount of secretion is decreased in proportion to the size of the piece of gland removed As a matter of fact there is sometimes a degeneration of the remaining tissue after operation and it must be assumed that the stimulus which led to the hypersecretion is overcome by the opera On the other hand in simple goiter (not Basedows) where it would seem that hyper trophy would take place to compensate for functionating tissue removed there is also a decrease in the size of what is left. Here it would seem that conditions are brought about by the operation that render the remainder of the tissue capable of func Simple surgical operations, without extirpation such as separating the isthmus by Sydney Iones a method seem also to give use to a stimulus which causes a decrease in the size of the gotter This is to be explained by the fact that there are cases of gotter in which hypothyroidism exists (Leopold Levy Rothschild) Observations should be made to determine whether on operation of such cases the hypothyroidism disappears. Cases of Poncet Neudörler and Cathcart seem to show that it does as well as some of the author's experiments on dogs who were cretins. The author proposes in myxordema with goiter infantile myxordema and endemic cretinism to bring about by operation a change in the condition of the gland that will conduct the secretion into normal paths

Jones E. O A Method of Controlling Hæmor rhage in Thyroidectomy Surg Gynes & Obst. 1913 xvu 642 By S vg Gynes & Obst

In a small percentage of thyrodectomies unusual difficulties caused by produce hamorrhage are encountered. The superficial location of the superior thyrod artery renders hemorrhage from this source easily controlled. The deep situation and intimate relations of the inferior thyroid artery render control of hemorrhage from this grant of the controlled artery render control of hemorrhage from this grant ham to be a superficient of the controlled artery and ligating this artery by dislocating the render of the render that produce the controlled artery and the superficient transparent produces that it has been abandoned in favor of the modern untracapsular operation.

By a study of the various layers of the cervical fascis and the paces lying between them the steps of a procedure have been devised by which the inferior thyroid artery may be ligated with safety behind the carotid sheath and at a distance from the thyroid fascia after which the usual intra capsular operation can be carried out without the

difficulties and amoyances of profuse hemorrhage. The operation is not recommended as a routine procedure, but is to be employed with very vascular gotters where profuse hemorrhage is to be expected Enough capillary carefulation remains to ensure the valuality of the parathyroid bodies. The steps of the operation have been worked out on the adaver may applied in one operation of thyroidectiony and applied in one operation of thyroidections.

Freeman L., The Use of the Wire Clamp in Operations for Golter T Western Surg Ass St. Louis 1913 Dec By Surg Gynec & Obst.

Goster operations may be made safer and easier in most instances, according to the author by the use of a simple wire clamp. After dislocating the lobe to be removed a section of wire about No 17 is placed along either sate of its base, the two wres

being tied firmly together by ligatures passing through the glandular substance, thus clamping it firmly. The lobe is then cut away beyond the clamp and the stump whipped over with catgut to control the bleeding, the wires being then removed

The advantages of the wire clamp are (i) It may be adjusted to almost any goiler (a) homo may be neglectly controlled (3) the tassues are not crushed (4) there is no danger to the recurrent laryngeal nerves or parathyroid bodes, and (5) the wires cannot sinp from the stump being held by the ligatures passing through it.

Forces are inferior to the wire clamp because they cannot be adjusted to every case, they crush the tissues and they may slip from the stump when

the gland is cut away beyond them.

The method seems particularly adapted to paren chymatous va cular gotters of moderate size such as are so often seen in Graves a disease

## SURGERY OF THE CHEST

CHEST WALL AND BREAST

Gosset A and Masson, P: Anatomo-Path ological Study of 75 Cases of Cancer of the

Breast (Sozanteq mas can de tumeur du tela 
étude anatome-pathologoque). Res de pride de 
de Ar Meim 1913 zu 197. By Junul de Charung.

The most frequent duesase of the breast is cystic 
mastitis The mammary gland is a modified sudom 
parous gland and its most specialized and fragile 
part is the actions. Affected by inflammations the

part is the acinus Affected by inflammations the excretory canals may be obstructed by proliferation of either connective tissue or enthelium. This obliteration leads to an ac umulation of the fluid secreted and if the cells of the acini are resistant the actions becomes cystic if not, after temporary d lata tion the actions atrophies. Finally by a process of hyperplasia papillar are formed projecting into the cavity This is the beginning of a dendritic adenoma If there is more connective tissue than epithelium a fibro-adenoma results If the epithelium is in excess the cystic cavity is filled up with an epithehal mass and a leason is formed intermediate between benish adenoma and infiltrating carcinoma This explains the coexistence of cystitis and cancer The examination of many sections has shown the authors how frequent adenomatous lesions are even if they are very small in cystic disease. They believe that the coexistence of cystitis and cancer is not the exception but the rule and that cancers develop much more frequently in cysts than in the surround

ung normal gland. The authors conclude by saying that cystitis the inflammatory nature of which is demonstrated is a preduposing cause of cancer. For a certain length of time the cancer is not evident chinically it can only be shown by hatological examination. It is at this stage that operation would be effective and the ideal way would be to operate only on microcopical.

cancers Pieces should be removed for section and examination and the results would frequently indicate immediate and complete removal This would avoid the rapid development to which naufficient operation sometimes gives rise

Georges Laney

Lapham M E: The Surgical Treatment of Pulmonary Tuberculosis Beston II to S J 19 3 cixir 676 By Surg Gynec & Obst

The author criticises the present attitude of treating pulmonary tuberculous merely by fresh air good food and medical care. Many cases which run a rapid course can be arrested if the leng is collapsed and the diseased trasse put at rest. The collapsing aids drainage and allows connectivetissies militarian to take place.

The best method of collapsing the lang which we have at present is by the introduction of nitroger. This, however has several disadvantages the pleural carry is closed and the pressure is apt to be either above or below the atmospheric pressure. This difference in pressure leads to many curculatory disturbances. It is reasonable to suppose that if the pressure is made the pleural cavity were a constant pressure as compared with the pressure is the pressure as the pressure with the pressure in the constant pressure is constant pressure as constant pressure is connect the pleural cavity with the outside by means of a tube with a cap on the outside. By removing the cap the intrapleural pressure could be raised or

lowered
Other methods which the author suggests for bringing about the collapse of the lung are as follows (1) The Wilms or Sauerbruch operation, which consists in the resection of all the risk from the first or second extending to the teath or eleventh.

This method is useful when extensive adhesions of the pleura prevent the formation of an artificial pneumothorns by means of narrogen (2) The method of Baer is applicable when the cavity is too far up in the apex to be affected by an artificial nneumothorax. Baer resects the second rib works the costal pleurs free with the finger and directly compresses the cavity by tamponing

J H Senzes

Observations on Empyema Beckman E II kgnam E al Si P al M J 1913 av 533 By Surg Gynec & Obst

The pathology of empyema shows that as soon as there is an accumulation of purulent material within the pleural cavity either local or general, nature regards it the same as an abscess in any other part of the body and attempts to limit absorption by walling it off. In operating on some of the late cases the thickness of this limiting membrane was often found to be from one half to nearly one inch in thickness. As the fluid accumulates in the pleural cavity the unyielding wall of the thorax prevents expansion in this direction, and room is found for the accumulation by compression of the lung If the empyema has continued for any considerable leagth of time this membrane is so resistant that the lung cannot re expand after the fluid has been allowed to escape by free excusion

It is evident then that if free drainage is estabhished before these adhesions form or before they become firm enough to hold the lung in a state of collapse the lung would quickly obliterate the cavity and the patient be rapidly restored to obtained with free drainage in the early cases. It should be remembered that empleme is not a disease of the lung although pulmonary disease and empyema may exist at the same time and that the pulmonary tissue is only slightly or not involved at all in the inflammatory process in a very large

majority of the cases In the recognition of small empyemas we have chiefly to remember the relationship between pneumonia other infections and this secondary infection and therefore to be on our guard if the development of the general phenomenon of nfection occurs or persists after the pneumonic or other infectious process has apparently subsided continuing after the crisis in pneumonia in a certain localized area although it may not be severe and accompanied by a septic temperature almost surely indicates a localized empyema The localization of the pus can often be determined by the pain and localized tenderness on the wall of the ches

The aspirating needle is often of the utmost service in arriving at a correct diagnosis in these cases While many writers warn us of the dangers that may occur from introducing a needle into the pleared cavity Beckman thinks that more good in the way of arriving at an early diagnosis is to be

gained from its use than the dangers that may come from a late recognition of empyema

A radiogram of the chest is of great value in ar riving at a correct diagnosis in obscure cases. It is often an extremely difficult and sometimes an impossible task to determine what the picture shows It must be kent in mind that the X ray picture is the reproduction of a shadow and that a thickened pleura may cast as dense a shadow as an accumulation of fluid

Posnegen F : Reciprocal Relations Between the Thymus the Thyroid and the Lymphatic Inymus the Inyroid and the Lymphatic System (Beitrag aur Frage der Wechselbeuchungen zwischen Thymus, Schilddruse und lymphat schem System) Med Kln Berl 913 is 1504 By Zentralbl f d ges. Chir u i Grenzgeb

The nathological anatomist is impressed on examining the thymus with the manifold variations not only in the formation of the entire gland but in the relations of the cortex and medulla and in the persistence of epithelial elements Microscopically remnants of the thymus can be detected at the most Virchow s and Von Hansemann s advanced age assertion that goiter was generally connected with an enlarged thymus could not be confirmed from the very abundant gotter material at the Freiburg Pathological Institute Neither could a relation be determined between persistence of the thymus and the formation of lymphatic foci in the thyroid but the marked involvement of the thymus in two cases of lymphatic leukemia and the frequency of the status thymico lymphaticus indicate a close relation ship of the gland to the lymphatic tissue. In rickets and in chondrodystrophy (2 cases) there were no characteristic changes in the thymus Torkey

Kolb, K Can a Persisting or Hyperplastic Thymns Be Demonstrated with Abderhal den a Ferment Reaction (G ingt entitlet der Abderhaldenschen I mentreskund den V chau-ener persisterenden der hyperplastische Thymns utubrah II Abe med Wchasch 1913 k Ge-tablich der der Gerchen 13 Genageh

A hyperplastic Basedow thymus gland cannot be demonstrated with certainty by percussion or the rontgen picture The blood serum of healthy per sons as Kolb was able to show in the case of 12 adults contained no ferment capable of decomposing the tissue of the thyroid thymus or liver normal thy mus of youthful individuals in the process of involution cannot be shown by Abderhalden s fer ment reaction. In six cases of Basedow's disease at Il lm s Clinic thyroid split products were found in four cases and marked splitting of the thymus in all cases The ninhydrin test was just recognizable in four out of seven cases of endemic goiter Kolb urges a test of the splitting power of the serum in cases of status thymo-lymphaticus in thymns new growths and before and after thymectomy

## TRACHEA AND LUNGS

Segura E V: A Case of Cylindroma of the Trachea; External Operation; Recovery (Uncas de cylindroma trachal operation par la voie esterne guérison) Aus d'audedus de l'oreille 1913 Extra 152 By Journal de L'aura

The author reports a case of cylandroms of the traches operated upon externally followed by recovery. The patient was a woman of 42 whose previous history was negative. Early in 1500 at beigan to be fatigued on the slightest effort and the symptom grew worse. Site first took and as athenatic and then grew worse. Site first took and as athenatic and then grew worse with the state of the state January 1071 the daysnora was so intense that she was obliged to remain constantly in a sutting

position and take inhalations of oxygen
In April 1911 Segura found at the level of the
fourth tracheal ring a smooth pyriform tumor with
its large end downward covered with normal mu
cous membrane. It occupied almost the entire

lumen of the traches

A local ansathesas was produced with cocane adrenalin, and the anterior surface of the trachea was esposed by an incison of cor form long. It was opened by a meinal nicason through five mags, and it was found that the upper two thirds of the tumor were adherent the lower thand free Three fourths of the tumor was removed with a snarre and the base was removed with a punch forceps. The hem orings was very slight, and the traches Immediately resumed its normal cabber. Segura did not in sert any trachest commits, and offer the properties of the traches and the state of the contract of th

The healing was rapid and eight days after the operation the patient left the hospital completely well. In October 1912 there had been no recurrence.

A histological examination showed that the tumor was a cylindroma, a type of tumor that generally develops in the neighborhood of salwary glands and may be regarded as a beings tumor though it frequently gives rise to recurrences

GEORGES LAURENS

Ghoreyeb A A and Karan r H T : A Study of the Relation of the Pulmonary and Bronchial Circulation J Exp Med 1913 xva., 500 By Surg Gyner & Obst.

In order to appreciate the possibilities of the circulation in the lungs in various pathological conditions the authors injected the pulmonary and bronchial arteries aimultaneously under measured pressure

The pressures were varied in the two vessels in a series of experiments. The work was done on aneathetized dogs and when complete the vessels were clamped the specimen removed and placed in fixing solution

They found that as long as definite pressure is

manufaced in either system the admixture is extremely limited II however the pressure in either system drops to zero the admixture is evident. It was found that it takes much longer for the mass nijected through the bronchial arteries to penetrate to all parts of the lung than when the injection is made through the pulmonary artery but when made through the pileuns On the other hand the injection scale to all capillanes of the pileurs. On the other hand the injection of the pileurs of the way of the pulmonary system is not complete how are in the pressure but this is rapidly accomplished when a hup pulmonary pressure is used.

The conclusion is drawn that either circulation can supply the simple nutritive demands of the lung if the other should be interfered with.

JAMES I' CHURCHUL

Segura E V: Vyrcosu of the Mucous Menu brane of the Respiratory and Upper Digastre Tracts (Considerations sur les myrcose des misqueuses des voies respiratoires et digestives inspircures) Arch sulernai d layagel 9 3 xvi, 43 By Journal de Cuncupe

The author reports zz cases of mycosis of the respiratory and upper d gestive tracts which he believes were due to sporotrichous although the sporotrichium was not discovered in the majority of them.

The isolous had the typical appearance of goortnchous ulcerations with ragged edges screentering as the center. In the nasal fosse the ulcer were covered with thick crusts and us some pieces there were little yellow spots representing follouds reportions. In one case there was destruction of the wulls and pillars in another the epiglotis was covered with papillomation segerations and in the eleventh case there was a sportrichous that had degenerated into a neoolasm.

In the cases where the sportentium was not discovered the author established his diagnoss partly by the spearance of the lessons, but more apparentiality by the exclusion of tuberculous and Viscommans and all except the last in which there was a neoplasm recovered in no to go days with small does of sodde of souffrom Several of these patients had been treated with mercury without

Heretofore, in all cases f sporotrichous of the muous membrane (which cases are very rare, how the seed of the control of the seed of the control of the con

## PHARYNX AND ŒSOPHAGUS

Torek F: The First Successful Resection of the Thoracic Part of the Œsophagus for Carcinoma (Benth uber du erste erfolgrech Resitua des Brustzeles der Spriserohre wegen Carcanom)

Destrike Zitch f Ci., 1913 cm. 305

By Zentrabli i di ges Chr u i Grenzgeb

More than a year ago a 67 year-old woman was operated upon for carranoma in the middle of the exophague extending downward 45 cm from the lower edge of the acritic arch. Some time before, account was made through the posteroir end of the seventh intercostal space. The fourth fifth airth and seventh nos were reacted near the tubercle. The adhesions between the lungs costal pleurs and daphragm, were then lootened. The tumor was found to be slightly movable. The cosphagus was found to be slightly movable.

disturbance of the pulse
It was very difficult to dissect the part of the
Grophagus behind the sortic arch. This difficulty
was finally overcome by ligating and cutting a num
ber of the thoracic branches of the sorts and litting
the sorts out of the way. The tumor was adherent
to the left branches and in freenge it an uncison was

made lengthwase of the bronchus Thu incuson was sutured with silk. The excopingus was dissected from a point 25 cm above the disphragm to the neck and burned through with the cautery below the carcinoms after double ligation. The excopingus with the tumor was drawn through an incusion along the antenor border of the stemo-cledo mastold. The lower stump was ligated in a fissure previously made by crushing. The stump was invarignated with two purse string situres. The thorax was closed with silk satures at the seventh and except with silk satures at the except of the string string string the string of the string was the string of the string

The skin and muscle incasons were made under local ansethesia general ancross was then induced by the Melzer Auer method of trached insufficient The intrathorace part of the operation from the incision of the pletus to the closing of the thorace cavity listed is hour and 45 munutes. Nounshiment was given until the eighth day with a gatientsomy tibe and funnel. At the end of that time the free end of the gatientsomy time was more timed to the condition of the remaining esophagus and the patient is now able to swallow berood.

Borr

## SURGERY OF THE ABDOMEN

## ABDOMINAL WALL AND PERITONEUM

Quain E P: The Necessity of Conserving the Intercontal Nerves in Abdominal Incisions An Experimental Study T Haston Su g Ass St Louis 1913 Dec By S tg Gynec & Obst

The author had occasion to operate on several patients, who shad previously been operated on through lateral abdommal incisions placed in such a way as to sever intercontal nerves. The findings in such cases suggested a possibility that the omentum such cases suggested a possibility that the omentum that the such case of the such cases of the such case

In a series of experiments on dogs and rabbut undertaken in an effort to determine whether these observations were correct the following plans were adopted In group: I to lower intercostal nerves were severed on one sade through an incision near the costal margin subtout diamaging the peritoneum la group: a micrision was made in the linea albaboth sades of the parietal peritoneum were rabbed with gause care being exercised to apply an equal amount of trains on each side and the wound then desert. Through a second incision at the costal amount of trains on each side and the wound then desert. Through a second incision at the costal margin of the sufferior of the second incision which is not the costal to the second incision where made as in group. With the addition of tincture of sodium gat the or intestinal contents.

applied in weak solutions to the peritoneum on each

At autopsy there were no macroscopical changes in group: I ngroup a pathological changes especially adhesions were more marked on the enervated than on the normal side in seven of the eight experiments. Microscopical sections aboved a more chronic infliration and a delay in the repractive process in the enervated personeum when compared with corresponding sections from the normal side. In group 3 the same general results were obtained as in group a but somewhat more marked.

A summity from 15 experiments in groups a and 3 shows that adhesions were confined to the side of neric extinpation in eight animals two of the three cases with bilateral adhesions had most of the adhesions on the operated side fibrin deposits were instituted to the enervated side in one case and one animal without adhesions had a more marked perinoneal militation on the operated side. There were three negative experiments if Hence So per were three negative experiments if Hence So per the question as to whether the destruction of the question as to whether the destruction of an intercostal nerve supply is of pathological significance to the per toneum.

That adhesions and chronic infiltration are more hiely to follow trainms and infection on an enery ated than on a normal peritoneum are facts which argue strongly aga ast lateral longitudinal incisions and in favor of train erse inc. jons

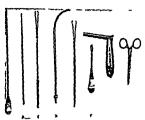


Fig 7 (McDill) 1, Sins a uterine sound, B same with handle removed blant end perforated and probe por ted, making the Bodim C a 3 cm (to inch) Emmer's cotion carrier, D a No 14 standard ga we eatheter E the Sik Carrier made from C and D i trovar for the Kelly endoscopic t be G used as carnula II Péan forces.

McDill J R: Chronic Ascites Treatment and Drainage by Lymphanglopia ty Through a Trocas Yound Under Local Amesthesia An Experimental Study zvi 523 Ey Sug Gync & Obst 1913 By Sug Gync & Obst

In this study and series of experiments the author attempts to show that the rel ef of ascites after operations which herniate an abdominal organ or which implant alks from the peritonical cavity to the subcutaneous paces a probably not from collateral circulations in the one case or from camil lary drainage in the other but is due to leakage of the flu d alongside the marsupialized organ or the implanted silks which are prevented from units g to the surrounding tissues firmly enough to bold in water under pressure by this pressure itself and also by the normal and con tant movements of the abdominal wall. The speedy replacement after tapping of large quantities of fluid, rich in proteins, salts and the characteristic constituents of the tissues and fluids of the body which are necessary to metabolism makes the patient pay very dearly for relief from distention and greatly shortens the remaining period of life

In his experiments McDill made use of rabbits and derived a simple technique by which the act he tested climically to the control of the cont

The instruments can be made from old tools



Fig 2 (McDill) The three pieces of No so silt with about 4 cm (114 inches) of th ir ends statched finally together ith fine salk, held in the silk carner ready for jeacution through the cannula.

found in any doctors office as shown in Fig 1. The Kelly tube with trocar and the Pean forcep are not essential any cannula may be used that will take the carrier when loaded with the 4lk

The technique consists in (t) paracentesis just above the pubis and 5 cm (sinches) from the median line making sure that the cannula is in because on account of the recumbent position of the patient very little fluid will flow (2) the silks are passed. as in I'm 2 through the cannula until about all em (s inch) project beyond the parietal pentopeum holding it exactly in place the cannula is slipped out over the carrier, and the three ends which have been cut to the desired length are thrust. using the bodlin eye first downward and in three directions into the subcutaneous fat (s) the "carrier" is removed without disturbing the silk the bends of the siks are tucked in and the opening is sutured very snugly. When these special instru-ments are not available the silk can be planted through a short incision under local anasthesia. with one stitch to anchor it to the deep fascia also after an exploration when it is indicated the silk can be easily inserted in one or both sides before the abdomen is closed

The author's conclusions are:

1 Asticise patients have an impalred v tal resistance deficient powers of repair and do not well
endure extensive operations under a general sunsthesia a number of the formidable operations have
thesia a number of the formidable operations have
it has sumple procedure will provide a gradual drivin
age of the peritousal poind t will be a desirable
addition to extating methods

3 The operation is not much more sensus than a simple particules and old in this can be inserted at any subsequent tapping until there is sufficient drainage pressure by intraperioneal fluid is described after this operation to readen the line of mone between the allt and the surrounding tissues but if it becomes too distressing a tapping may be necessary to give temporary refer permanent drainage may not become established until two or three months after an operation.

3 The permanency of my improvement will depend upon the correction of an intestinal toxicina when present rest n bed whn indicated, total withdrawal of alcohol bland and almost salt-free diet and attention to any cardiovascular renal dis turbances. Although a liver cirrbons with the atrophic tendency cannot be cured its physiological balance can be restored in many cases and life may be greatly prolonged in comfort and freedom from disability. I. R. McDill.

Veir J: Questions in Regard to the Peritoneum from the Author & Experience (Pentonale Fingen nath eigenes Erlahungen dargestellt) \* Prakt Ergebr & Geburisk = Gyndk, 1012 v 105 By Zentnibl f d ges. Chr u : Grenzgeb

The first question deals with the covering of intrapentoneal wounds with peritoneum Veit believes that the peritoneal covering of all abdominal wounds, as demanded by Bumm is unnecessary if the operation is strictly aseptic formation of ad hesions is to be feared only in case of infection According to experiments by Dembowsky and Lamers, no adhesions form over the gaps in the pentoneum if there is no infection. The reparative process begins from the edges of the wound and proceeds much more rapidly than it does in the endermis. The author thinks that the mere lower ing of the stumps in simple ovariotomy without covering them with peritoneum is justified. He covers with peritoneum only in operations where there is fear of cozing of infectious material in aseptic operations he leaves the connective tissue spaces in communication with the abdominal CAVITY

If the contents of the tube is purilent or if on sectioning it he cannot be sure whether the con teats is free from bacteria be covers the stump with perinoneum as in appendicuts. If he has to open the vagma in a laparotomy and remove the uterus also he provides for the dryness of the abdominal cavity and for aseptic healing by insuring free changing of the abdominal cavity. He accomplishes the abdominal cavity if he accomplishes the state of the desired for the first four or five lays after the operation and sit in a char:

The second question concerns the protection of the abdomnal wound. In order to keep the wound entirely free from germs during the operation he covers it entirely with Biltoth gauze by Koeberle's method, and covers this over with metal. For this purpose he uses an abdomnal speculum which he has had made by Windler of Berlin. He has had excellent results with this method.

Hancock J C Coincidence of Umbit cal Herals with Gall stones T IF far S 2 A S Lous, 9 3 Der Dy Surg Gyrec & Obsa Lous, 9 3 Der Dy Surg Gyrec & Obsa Scant mention is made in the hterature of the association of a certam class of umbitch herma and gall-stone deases While the author's senes of Cases (seven) is 100 small to establish more than considence common entological factors are significant to the consideration of the consid

Besides the principles of the causation of hernia in general we have in the unbilical variety preg nancy as the conspicuous form of trauma. Of 134 cases in males over 15 years old only 15 cases oc curred having an unbilical hernia only while 95 had blatteral and 12 unlitateral linguial hernia besides In 494 cases of tumbulcal hernia in women 436 cases of this form alone were present and only 56 combused with other forms. Of the 494 unbilaterial cases in women 496 had had one pregunary and 377 had had plural pregnancies with two exceptions the parous cases developed hernia only after

Of pathological bases for umbilical herms obesity is common and striking Denk reports four nulli parm as having umbilical herms but three of them were uncommonly fleshy and the fourth otherwise spare had an enormous overann cyst Of the author's cases all were fleshy to distinct obesity

In respect to age umbilical herma in the female over 30 years old is common compared with those occurring earlier and especially compared with the male of like age — with one exception in the author's cases of a woman past 30 years of age all were more than 40 years old

Constitution is a conspictions feature in these cases and intertual states may act as a contributory cause or may be an effect of umbilical herms. Companing the factors of contributory causes of umbilical herms with those of gall-stone disease we see a close relation. In respect to see we see the proportion of three cases of gall stone disease in women to one in men. In regard to age nearly 50 per cent of all cases of gall-stone disease occur in people above 40. Munty per cent of awarent with gall-stones have

had one or more pregnancies Obesity in women with gall stone disease is common but not so con spicuous as in umbilical herina. Constipation and intestinal stasss are as important factors in the causation of gall stone disease as in umbilical herina. In conclusion it would appear indicated in treat

ing umbilical herms of the type described to search the history for symptoms, and at operation to examine for proof of gall stone disease

Gussew V Treatment of Incarcerated Hernia Based on 420 Cases (B trag aur Therapie der engeldenunten Briche auf Grund von 420 Fallen) Draiteke Zis kr f Ck 9,3 cm 135 By Zentralbi f d ges Chr u i Grenzgeb

Gussew reports 470 cases of mcarcerated herma observed in the surgical section of the Chaldren a Hospital at Riga from 1902 to 1912. The statistics must be read in the original. He reports the following unusual cases which are described in detail one case of harmorrhage into the hermal sac 3 of reduction en masse 1 of rupture of the hermal sac and the contract of the contract of

In ga grenous herma primary resection of the

intestine is the operation of choice. In 24 per cent of the cases of intestinal suture there was insufficiency of the satures in 33 per cent of those united by Musphy buttons there were facel faitule. In 7 cases in which there was a history of herna but no attempt at reduction had been made and the herna was not vasible there was increceration at the

internal ingunal ring making diagnosis difficult. There were two cases of matthen diagnosis—once in a case of propertioneal lipoma, and the second time in a case of appendicular pertinoutis in the hernial sac. The mortality for the 4 po cases was 7 per cent. The author thinks that this percentage can be reduced by more frequent use of local anasthesia improvement of operative technique by sending the patients for operation as soon as possible and by general practitioners guidag up attempts at

De Garmo W B Accidental Wounds in Hernia Surgery A Y St J Med 10 3 x 57 By Surg Gynec. & Obst

This paper is the result of observations based on soop personal operations. The sulfor calls alten toon to the fact that the unnary bladder not unfrequently is found in hermal sace. He was able to callect tharty-one cases an has sense It is impose that that this possibility be kept in mind so that injury to the bladder may be avoided during the course of an operation for herma. De Garmo is of the opinion that the high mortality following bladder injuries has been due to the fact that the accident is not discovered at the time and immediate repair made. It is imperative that no matter how slight the failury may be if the integrity of the bladder will has been disturbed it must be immediated.

diately and carefully restored

The author mentions three distinct forms of

bladder herma as follows

1 The bladder may protrude within a large

hermal sac with other contents of the abdomen This form is undoubtedly more common than is supposed but it is reduced when the patient comes to operation and is therefore undiscovered. 2. The bladder is draged into the hermal opening

y the personeum or the transversalis fascia
When the mucosa is hermated through the

muscular layers of the bladder forming a diverticu lum. This is the most treacherous of all types as the membrane closely resembles hernial sac.

The first type is intraperationeal the second, e ther wholly or partially extraperationeal and the third type always extraperationeal H L. Kreischner

## GASTRO INTESTINAL TRACT

Eusterman G B Incidence and Diagnostic value of Blood or Hamorrhinge in Gastric and Intestinal Lealons Clinical and Statisti cal Study Tr W ters Sur Art St Lous, 913 Dec. By Surg Gynec & Obst.

Repeated hamorrhage in the presence of a preceding history of gastric disturbances with pain or distress agnifies an ulcer of the duodenum or stom ach in more than 90 per cent of the cases. In about 1½ per cent of all cases of gastine and duodenal ulcers, operatively demonstrated single or repeated gastin intestinal hemorrhage with almost complete absence of pain or gastine disturbances was noted

Examination of the gastre contents and mostfree stool for occult blood is of undepasted valuin the differential diagnosis of doubtful cases and la estimating the effectiveness and duration of dietetic and medicinal treatment. However positive occult blood findings, unless taken in conjunction with the chinical symptoms and physical find

mgs may lead to wrong conclusions.

In 568 proven cases of dioidental siler as gle or repeated hemorrhage by mouth or bowel or both occurred in 191/ per cent in 140 cases of gastne ulicer in 24 per cent. In disease of the gail hisdder gross bleeding in variable amounts occurred in 2 to 4 per cent. in chronic and subscript supendicitis in

i to a per cent
Postave occult or altered blood findings in order
of frequency are incident to gastinc cancer chrosis
simple ulear of the duodenum and storach duesas
of the gall-hinder and appendix Attered blood
simple of the duodenum and storach duesas
of the gall-hinder and appendix Attered blood
sizes of gastinc cancer in 12 per cent of 407
gastinc analyses in 565 cases of duodenal ulear and
a a general average of 28 per cent in 342 cases of
gastinc ulear. In 228 analyses of 500 gall bladder
on 43 per cent or in 136 per cent of the total (it
guanac or benafind tests). In 170 analyses of
reagents was present in 24 per cent or in 54 per
cent of the total (it

Myer J S.1 Polyposis Gastrica Polyadenoma J Am Il Ats 19 3 ln, 1960 By Surg Gynec & Obst

Myer reverses the literature of this immersal control the etcology of which is as obscure as that of other growths. Chronic gastritis is a factor in its development. Macroscopically the polyps in per viously reported cases are small and pedicled varying in sue from the size of a lentil to that of a pea of soft consistency and never adherent to each other The polyps sometimes numbered several hundred violet from any part of the stomach mucosa. The portion of mucous membrane of the stomach and the polyp formation issually shown macroscopical characteristics of a chro ic gastritis enlarged lymph nodes are often present also. Myer reports in case in full it being with one exception the only one in which the d amont was possible for a conclusion of corcuppy. He offers the follow

Though the diagnosis was made possible in this case through the presence of small polyps: the wash water during lavage which also occurred: Chosrojeff's case and the presence of a large polyp in the faces following hamorrhage it would seem that at least a probable diagnosis might be made in future cases without this conclusive finding

2 The tontgenographical and fluoroscopical examination in a case as extensive as the one report ed here should always be helpful. The mottled appearance of the entire right half of the stomach, as though the bismuth were trickling through and around numerous masses, together with the irregular and indefinite outline of the stomach could be produced only by such a condition as described in this case or by a most extensive malignant disease which would readily be differentiated by other means.

3 Achylia gastrica, together with an unusual production of mucus, should always arouse suspicion Ordinardy in achelia gastrica mucus is not en countered in the wash water either in the large quantities here described or with the peculiar egg white character one would expect in the great multiplication of gobiet-cells

4. The repeated presence of fresh blood microscopically in gastric contents removed with care or in the wash water is indicative of a redundant vulnerable condition of the mucosa from which bits of tissue are readily removed by the tube

In severe acute gastric hamorrhage in a patient with achylia gastrica, abnormal mucous production and normal or increased gastric motility polyposis is more than probable LEO G DWAY

Erdmann, J F : Fibroma Cardia in a Girl of Eighteen; Gastrostomy and Enucleation

By Surg Gynec & Obst. The author reports a case of a girl 18 years of age who for four years except for several attacks of harmatemesis had suffered from rather ill-defined stomach symptoms and was regarded and treated by a number of physicians as suffering from ulcer of the stomach Because of an increase in the subjective symptoms operation was resorted to condition of the viscera was found to be normal except that upon palpation of the cardia a tumor was found A gastrostomy was done and the tumor which was the size of an egg and had the appearance of a prostate was found attached to about one-fifth of the circumference of the cardia By blunt dissection the tumor was easily removed. A counie of bleeding points were ligated the stomach was closed and a small abdominal drain inserted. The patient recovered N SPROAT HEANEY

Kawamura K.: The Digestion of Living Tissue in the Stomach; and a Study of the Patho genetic of Round Uner of the Stomach (Zur Frage der Verda ung kebenden Gerebes um M gen, zugisch er Bestung zur P thogenset des runden Mag engeschwitzes) List a & Genagit & Med w Chr By Zentralbl. f d ges Chir u Grenngeb

In numerous experiments on dogs parts of the stomach intestinal walls, and spleen were subjected

to the digestive action of the gastric juice under special experimental conditions These living tissues were not attacked by the gastric juice so long as the circulation in them was undisturbed. Only after necrosis had begun as a result of circulatory disturbances was there any sign of digestion taking place In experiments with artificial acid in viles the bits of stomach wall were digested first the complete digestion of the pieces of small and large intestine and spleen taking two or three times as

If equal sized pieces of mucous membrane from the stomach the small and the large intestine or the fluid expressed from these tissues were added to fresh gastric juice according to Katzenstein's conditions the stomach was digested first while the presence of the intestinal mycous membrane had a more or less inhibitory effect on the digestive power of the gastric juice - the presence of spleme tissue was markedly inhibitory. The addition of blood serum also decidedly inhibited the digestive action of the pepsin

From the experiments, the author concludes that antipepsin is found in the blood and is demonstrable not only in the stomach but in various other organs An ulcer of the stomach can arise only when from circulatory disturbances there is a lack of antipensin in a circumscribed area in the stomach,

WORTHAM

Lockwood C D: Ulcer of the Stomach in Children Before Puberty Tr IV sten Surg Ars St. Lous, 913 Dec By Surg Gynec & Obst Reports of round ulcer of the stomach in children before puberty are rare but the author believes it to be more common than is generally believed After recognizing a case of ulcer in a girl of 13 years and successfully operating upon her the author was stimulated to investigate the subject from the sur gical point of view

After a brief discussion of the etiology pathology and diagnosis of ulcer in children, the author's case is reported A girl of 13 previously in good health. was suddenly seized with severe pain in her left side which was thought to be due to pleurisy She soon complained of abdominal pain localized at times in the epigastrium and at other times in the lower abdomen Her chief complaint was pain, worse at night and paroxysmal in character she was con stipated and complained of being hungry A diag nosis was made chiefly by means of palpation Duning a paroxysm of pain gas could be felt gurging through the pylorus followed by immediate relief The author believes this to be a diagnostic sign of great importance The diagnosis was confirmed by the finding of blood in the stomach contents and stools and later by operation. An anterior gastroenterostomy was done with complete relief of symptoms for three months. Then there was gradual loss of weight and recurrence of all the symptoms. At second operation the tissues were so infiltrated and cartilaginous that further operation was uscless A post-mortem examination disclosed a perforated

gastric ulcur on the grader curvature with car cinomatous degeneration at the site of the ulcer and metastasis of the pancreas liver glands etc.

The author reports ten other cases collected by him which have been treated surgically and all cases of gastne ulcer reported in medical literature about test in all

5mithies F: The Significance of Gratric Ulcernit! Respect to Gastric Cancert Study of 560 Consecutive Operatively and Pathologically Demonstrated Cases of Cancer of the blom ach. J Am II Art 1913 id: 1913

Fig Sug Cynec. & Obst
Smithies prevents an analysis of 566 operatively
and pathologically demonstrated cases of gastric
cancer from the Mayo Clinic and offers the following
summary

1 A humber of cases clinically admitting only a diagnosis of chronic gastric ulcer are shown to be malignant at operation. Many cases of gastric cancer reveal a "precancerous" bistory which at any stage prior to the terminal period of malignancy satisfies the clinical symptom-complex of chronic

gastric ulcer

2 A study of this series has been made in the
attempt to determine how often chronic ulcer preceded gastric cancer and how this change is man

fested chaically

In its clinical con ideration the ext ratio in gastric cancer is approximately that of chronels gastric ulcre (2) makes to i female). More than three fourths of the rese of gastric cancer cocur in person between the ages of 40 and 70 years more than one-half those of chronic gastric ulcre (145 cancer leaves) between the ages of 40 and 70 A family halory or one of blood relationship of gathic cancer custed in 90 per cent and a history of tuberculous in 12 per cent.

Precancerous hs tory indicates the 4.5 per cent of pro ed cases of gastne cancer presented early symptoms of throome gastne uleer 13 per cent choosed the early symptomicalogy of irregular gastne uleer and 3.1 per cent of the cases had the symptom-complet of gastne cancer without perous gastne mallunction. Thus in more than 60 per cent of the cases of ga interactive patients per cent of the cases of ga interactive patients per cent of the cases of ga interactive the patients per generally ht i. I hronic gastne uleer

The length tum of all symptoms of the primary anceron group (182 cases) was 7 t months The average le gith of time of the precancerous lyappine period 1 to case was 114 3 cars. In this group the uper cening period of evident

mal group a raged 6 months

Dev lopment of pree necrous bastory permits patients comi go laparotomy at a stage when in more than one half of the instances surgical ad vantages of a localized process are available. In about one fifth of the cases? I primary gastre cancers alicus carcinomatosum is demonstrated.

The significance of clinical 5mptoms and peri

odicity was shown by the fact that in 3z per cent of the cases in which prolonged dyspepas had preceded cancer periodicity of symptoms was noted in that stage while in 9p per cent of the cases periodicity was absent when the process became endently malignant. In but 4 8 per cent of 18 cases of primary cancer were there periodic attacks of

As to types of pun nearly one fourth of the patients in whom dyspensa preceded malagenery had prostrating pain (colies, etc.), while only about one filterath of the patients with "primary" are exhibited that type of datress. Oplate roled as and in a per cent of the fatter. Food case of pain was present in more than one fifth of the cases in which malagnancy followed claused gastine ulter and fo 3 a per cent of the "primary" cancer group.

McIena or hematemens was noted in 2; per cent of the case. Of the group styled malignancy following ulcer harmorrhage occurred in 62; per cent in the "irregular ulcer group before making nancy 19; per cent and in "primary cancer group, 16; per cent Of patients bleeding within two years of coming under observations more than these fourths of life the ulcer before cancer classifiers of the control of the contr

Vomiting was observed in more than 57 per cent of the cases of gastric cancer while more than 40 per cent exhibited delayed vomiting. Of the entire group 12 per cent e. e. a history of dark or coffee-

ground worm!

Nearly three fourths of the cases of gastne cancer
exhibited abdominal tumor or ridge. This was
present in nearly two fitths of the cases of
gancer and in more than three fifths of the cases in

which ulcer preceded mal grancy linically
in more than one fifth of the cases in the pri
mary cancer division ad in about one-ninth of the

cases in the u n primary group metastases were demonstrated before laparotomy

The test meal findings showed that delayed gastine mpting pow r was evid need in nearly two-th rids of the cases in the primary cancer class and in nearly three fou the of the cases in the non primary du sison

In 33 s per rent of primary gastine cancer cases free hydrochloric acid was absent in 115 per cent it was between so and 3. In the non-primary cancer class free hydrochloric such was abset in 40 per cent and in 2 per cent it was between to and 50. Lactic acid was more commonly noted in the primary cancer group than in the non-primary.

division

The presence of occult blood was rather more inequently demonstrated a the non-prim by ancer class than in the primary cancer group the presence of Oppler Boas bacili was demonstrated in 0.5 per cent of cases of gastric cancer by the differential aggregation method

The glycyltryptophan test was positive in oper cent of the zat cases. The hemolytic reaction was positive in ay a per cent of the 31 cases. The formaldehyde titration index was uniformly higher in gastric cancer and ulerar carrinomatosis than in other gastric adments. The estimation of solicible albumin by the Wolff Junghaus test was more uniformly positive in cancer and carrinomatous uler cases than other forms of gastric disturbance crasses than other forms of gastric disturbance.

In about 10 per cent of the cases of gastric cancer the evidence returned by the fluoroscope and ronigen ogram is of distinct value in making absolute disgnosis of physically inaccessibly located cancers

The surgical consideration is of importance as the locations of ulcera carcinomators and cancer as shown by Ispartotomy closely approximate those of chronic gastine ulcer but to not correspond to the post mortem localization of gastine cancer. Your than one fifth of the cases of gastine cancer evented no involvement of the lymph nodes with generally feworable operative outlook. In nearly 4 per cent of cases free Jadoomaal fluid was present—these

were moperable cases
More than 30 per cent of gastric ca cers were
adenocaranomats while sarroma occurred but once
m 506 cases. More than one fourth of gastric can
cers show ulcerative changes as primary or second
ary types of growth It is usually an easy matter to
state definitely whether or not a given specimen is
at the time being or maigrant. There is a group
of cases of chronic ulcer in which examination of
fresh tissue reveals cellular or untracellular aria
tions of such type as to warrant designation of
precancerous? ulcer It is often impossible to
distinguish stages of simple and malignant hyper
blass histologically. Beingin ulcers of the duodenum

usunguish stages of simple and malignant hyperplasa histologically Benga ulcers of the duodenum may be associated with malignant gastic ulcers Benga and malignant ulcers may be associated in the same stomach

Case J T X Ray Aid in the Recognition of Pyloric and Duodenal Ulcer a New Sign of Duodenal Ulcer J Mach S: M Sec 9 3 xm 877 By Surg Gynec & Obst

Y ray examination in gastro enterology is essentially fluoroscopic except for purposes of record for comparison or when gall stones are suspected fater the regular bismuth meal consisting of 10 ounces of farma mush containing 1 part in 8 of summe subplact the sugestion of the meal is watched in order to determine the following points. Empty films was bape position character of pering time was bape position character of pering time such contained to the summer of the production of the production of the pering the summer of the position of the pering the summer of the pering the summer of the pering the position of the pering the pe

Though in many cases of duodenal ulcer the emptying time if the stomach is normal a rapid emptying is suggestic of duodenal ulcer while cases not showing this are those in which actual obstruction braits Quick emptying is also seen in choleithiasis gastine ulcer with perforation and adhesions to the pancters in extensive gall bladder

adhesions and in early carcinoma of the pylorus Early hypermothlity with later delay may usually be considered indicative of tardy pylorospasm associated with delayed hypercerction and is suggestive of duodenal ulceration Delayed mothity with hypericcretion and early pylorospasm is sugrestive of pyloru ulcer

The stomach is hypertonic or orthotonic in duodenal ulcer but usually hypotonic or atonic in pylonic ulcer Marked delay in clearance associated with gastric dilatation is likely to depend upon a

benign cicatricial obstruction

A spastic indrawing high up on the greater curvature is described as a sup of duodenal ulcer this being accompanied by pain or pressure over the duodenum Aot all duodenal ulcers show this indrawing and it has been observed in Graves disease appendictits and gall-stones. Subjective pain over the duodenal shadow is suggestive but tenderness in that area usually indicates adhesions though it may be due to other causes such as cholecystits. Perstaltur waves may be normal in duodenal ulcer and in pyloric ulcer they are usually exaggerated in depth and often in number.

The duodenal bulb normally contains busuals throughout the period of digestion and when it persistently fails to fill the indication is duodenal ulcer or perduodentits with adhesions. Unusual filing of the entire duodenaum is frequently seen in undochaul unitation from ulcer gall stones or peri duodentits and is indicative of a patient pylorius rather than reduced duodenal motility. A fieck rarely persists in the creater of an old duodenal ulcer rarely persists in the creater of an old duodenal ulcer rarely persists in the creater of an old duodenal ulcer and the creater of the create

M Ichior E Statistics of Peptic Ulcer of the Duodenum (Zur Statistik des peptischen Duodenal geschwits) Med M. a Berl 1913 ir 1408 By Zentralbl. i d. ges Chir u i Greozgeb

These statutics are the result of a series of questions addread to a number of physicians and a brief report of the answers received. Among 7th cases 81 sper cent were inner and 187 per cent aware men and 187 per cent aware men and 187 per cent aware men to the state of the series of the series

Pain when the stomach is empty is not a characteristic symptom of duodens diere. Blood cannot always be demonstrated in the stools even in floud ulcer. In several cases during the operation the ulcer could ot be felt from outside through the

intestinal wall and even internal palpation was without result in some cases. In treatment gastrometerotomy with occlusion of the pylorus by Reil logs method or more rarely by ligation, was preferred to lon Eureberg a carson which presents great technical difficulties. Many cases in the material show that simple pastro-enterotomy in cases of alert than have not led to steroom is post cases of alert than have not led to steroom is post perfectulen of the ulert secure case of the pregram. The material is too unverse and too rect to be used as a basis of judgment as to permanent results.

Kansvel A B: The Duodenum Mobilization Traumatic Rupture and Toxemia T West ers Suz dir St Louis 1913 Dec. By Suz Cyne A Ong

This contribution dealt with three questions. First the possibility of mobilizing the devolence second a con idention of traumatic reputure his diagnosis and treatment third the questions of tonemia developing in those cases in which the duodenum has been ruptured. Attention was called to the difficulty of reaching the third and lower portion of the duodenum by bochers method of mobilization and it was suggrated that the following

procedure should be used

In the first of two cases going to operation the suther expensenced great of flictudy in mobilizing by hocher's method and in the second case of extrapentoscial rupture of the duodenum he resised the colon and mode as memors in the peritorium between the donodenum and the firstitch curbetween the donodenum and the firstitch curtor of the colonial colonial second of the colonial mesentery. The opening was enlarged by the figurer and the entire retroperational duodenum in its lower part was completely exposed thus allow ing of sature and tretument

The cases of extraperitoneal rupture which the author reports (both cases were ixial) prevented marked toxerma and death was apparently due to this toxermis rather than to peritonitis, the absence of which was demon trated by post mortems

this tourmis rather than to peritoritis, the streener of which was demon trated by post mortems. The question a to whether the tourmis was due to a secretion of the duodenum or to some other

factor was discussed

1

Pantzer II O Fibroma of the Intestine I en tunting in intussusception and Obstruction Am J Obst V V 1913 int ho. 5
Ity S 13 Gynec & Obst.

The patient a guil of 15 years for three months had abdom and it trees which on three occasions had been rather severe and had finally presented graphenes of bwel obstruction Operation reveated an latissusception about 10 mehrs in length on the leum to mehrs from the Cecum. When the lower on under form the Cecum When the lowed was reduced the cause of the trouble was to be comed to be a fibroun of the borner wall the sessile attachment of which was marked by a white lating the control of the cont

Three inches of the affected gut were resected and an end to-end anantomosis was done. The tumor was 136 by 21 inches in size. The recovery was unevential.

A Spraar Higger

Venot II., and Parceller A: Primary Carcinoma of the Small Intentine (Le carcinome promise de Ejuno-idon) Rev de de 1913, 31 u, 637 By Journal de Chirarge

Confusion in disgnosting tuberculosis is easy and so frequent that a disgnoss of cancer ought not be accepted unless verified biologically. This is calization of cancer is rare and \text{tool and Pareclet above only found 47 suthertic cases. It occurs frequently is men of from 40 to 60 years of age and it is county in the case of the case o

Its stually in the loner or upper that and the study in the loner or upper that a study in the loner or upper that a study in the study

vagnation exceptional and perforation rare.

There are glandular metastases in 40 per cent of the cases and often metastases in the pentoneum

or vicera—here ovary bones sidneys and rectum.
The diffuse form is characterized by the presence
of multiple for which i velop in rare cases by
autotransplastation or by metastases through the
lymphatus or by amultaneous evolution.

There are exceptional cylindrical ancursinal forms not causing tenous which resemble surrous. They are generally adenocarrinoma, rarely sur

rhous diffuse eputhchouns, or colloid cancer. A true form is described under the name of car canoid tumor of the small injection. It has been found only at suctory and is in the form of separate noducles opaque white and hard and occupying the company of the company of the company of the company of the cumons in a herman parameter and the company of these tumors in the debras of the company of

Chincally the onect i gradual, characterized by a continuou pain at the sent of the tumor or by couc which indicates the beginning of atenosis

domining is fequent as are also disturbances in the I testinal irrelation of the same time the general health lectures and emiscation follows rapidly. The tumor cannot always he felt on palaytion and it is a such cases that examination of the faces and roagen examination are valuable. Inter timal occlusion is the most important of the

Inte tual occlusion is the most important of the completations and it occurs in a per creat of the cases. Diagnosis can be made when there are intentional and physical ingro of stenous of the small intestine accompanied by early and pronounced changes in the general health! However differentiation from tumor of the stomach is not always easy, but examination of the stomach contents will usually settle the question. Confusion with tumor of the large intestine is more frequent.

But even in exploratory operation the gross appearance of cancer of the small intestine is not absolutely characteristic and is often confused with tuberculous producing stenosis

Prognosis is grave for it always leads sooner or later to occlusion in the forms with multiple foci it

is even more grave.

The treatment may be radical or pallastive. Of 50 cases reported by the authors as had resection performed of these to recovered and so deed a mortality of 38 tep erent But ten of these were operated on after occlusion had taken place with seven deaths, or 30 per cent mortality. Of the 16 operated on before occlusion there were threten reverses and three deaths, or 28 7 per cent mortality.

Palliative operations show a mortality of 60 per cent these figures being explained by the advanced stage of the disease when operation was performed Artificial anus of the small intestine is so incon venient and so grave that it is better to try enteromastomosis at a distance from the cancer

Lengthy survivals are not rare Kummer reports a case free from recurrence after 7 years and 7 months and Mikulicz one after 7 years and 5 months.

Guibe M : Relations Between Appendicitis and Biverticulitis (Sur les rapports entre l'appendicité et la diverticulité) Press méd , 1913 EN 7 3 mg. By Journal de Chirurgie

Simultaneous leasons of the appendix and a Metchels diverticulum are probably quite frequent. They may be simply a contridence or the one may be caused by the other in the latter case it is generally the appendicitis that is primary and causes the diverticultus.

A case a described of a young man of 17 who was operated on for a gangermous appendix containing a frecit calculus. On operation there was found to be a free Meckel's diverticulum, at least 6 or 8 cm long with a lumen about equal to that of the small was the control of the co

Three and a half months later the pottent returned to the hospital and on the day of his ad mission was seized with violent colic and vomiting for which a scoond operation was performed. With some difficulty the di-criticulum was found. It was so adherent to the execum that it could not be freed without tearing the wall of the execum. The diverticulum was legated and removed and the wall of the execum restored. Drainage was inserted followed by recovery.

On histological examinat on the mucous membrane was found to be normal with no trace of inflam mation. The subserous coat however showed mation. The subserous coat however showed motion of the subserous coat however showed together would normally a set was extremely vascular. It was made up almost entirely of comments in the subserous presenting especially deep down nettine tissue presenting especially deep down.

near the muscular coat a fibrous structure with wavy bands of connective tusue more super ficially it was formed of elongated, fusiform fibroplastic cells. There was no sign anywhere of in flammatory nodules or of collections of leucoytes

It was an infiammatory process which had ter minated and the lesions were becoming organized moreover the process had extended from without inward progressing from the serous toward the mucous cost and almost entirely limited to the serous and subserous layers J Drikovi J Drikovi

Basham D W Retrocacal Appendicitis Tr Nesters S g Ass St Lous, 1913 Dec By Surg Gynec & Obst

The author recognized three forms of the disease along the anatomical situation of the appendix. He thinks that the location of the vermiform process has much to do with the character of the individual case the limitations of the abscess in the event of suppuration being determined by the surrounding structures.

The three most frequent abnormal nituations in which the appendix is found are (1) Postenor and external to the executi with the distal end of the appendix facted upward and within the peritoneum (2) postenor and external to the executi man without the pentioned activity and (3) directly behind the executi often just behind the valve of Bauhin

He lays stress upon the frequency of obstruction of the bowels as a complication of appendicuts when the organ is si usted just back of the ileocrecia fregion. The suther calls at entien to the obstacles to a clear diagnosis in these timesural forms of appearances. The contract of the case with which certain cases may be mistaken for some obscure renal affection or disease of the gail bladder and reference is made to the unusual location of the organization of the contract of the contract of diffusers on percussion and the presence of resonance when the appendix occurings a position directly posterior to the cercum.

Reference is made to the presence of albumin and blood in the unne with frequent mecturion when the inflamed appendix has in close proximity to the untert as it crosses the poss musice. The absence of rigidity in the muscles of the anterior walls of the abdomen a stributed to the fact that the posterior pentioneum instead of the anterior is involved in the pentioneum instead of the anterior is involved in the pentioneum instead of the anterior is involved in the pentioneum instead of the anterior is involved in the click with greatest intensity in the lumbar reporter over the upper and outer part of the thigh is explicated by the fact that the nerves supplying these parts are pressed upon in their course outward across the puss muscle beneath the inflammatory

The author believes that suppuration is more frequent in these abnormally situated appendices than in appendices hanging from the caput excitee in the pentoneal cavity. In the operation for post-excal appendicties the author insists upon

removal of the appendix perfect toilet of the abscess cavity and posterior drainage

kostanecki & : Comparati e Morphology of the Carcum with Special Reference to Ita Relation to th Peritoneum (Z r vergleich gen Morpholyse des Blanddarmes unter Berücksicht gung ne pes berhälter was z to Bauchfell) Anat Highe

1913 al 111 300 By Lentrall-L f d gen Ch r u. L Grenzgeb

Aostanecki foll we tile gradual development of the curcum in the animal kingd m with the aim of explaining its relation in man and the other mam mals. He lays special stress on the relation of the cecum to the perstoneum and the blood supply Differences in the findings of different investigators are explained by in hyldus! differences differences in age, and especially by differen e in the degree to which the execum wa fill d and by the degree of er ntraction f the muscles He finds in f sh (Selachii with finger shaped glands and in some Telegated as well as in amphibia that the excum is a projection of the dorsal wall of the beginning of the terminal intestine in the dorsal layer of the mesentery di rected toward the beal that I that they have a dorsal excum

Since the carrier has leveloped with a the layer of the mesentery and is covered smoothly and un-formly by both layers of the perit neuro pecual peritoneal folds are not visible between these ayers, branches from the superior mesentene artery supply it and years pass from it to the first part of the portal vein In rept les and birds there are transition forms between the above form and the

mammahan The findings in reptiles must be regarded as variations on the way to the fin I form. The evenum in reptiles within the same orders and fam her shows great agricultura in attraction degree of development and form It may be entirely lacking in some in some it resembles the decided dorsal excum of the amphibia in the majority of reptiles especially where they are of large size at I asymmetrical, being more strongly leveloped either toward the left or the right. This lateral d placement the formation of a lateral carcum is the most striking characters tic in the repulsan group. The lateral circum too either remains intermesenteric throughout its whol extent and only pu her the left or right peritor layer of the dorsal mesentery before it or at 1 a t it is intermese t no t its point of juncture to the large intestine and o by is apen in free from the layer of mesentery

In some gro ps of the rept ha there is a decided boundary between the lum n of the cacum and that of the large intesti Moreover it is sus pected from the macroscopical appearance that there is a he tological diff rence between the mucous membrane of the carcum and that of the large intestine. Both thes facts inch ate a specific independent function of the creum

In the birds the form I th excum shows great

variations as a rule birds have a pair of carcums of very large size. The carcum of cryptoprocta ferox is given as a type of the mammalian eccum. especially on account of the formation of its mesenteric folds. The mammal an execum is a sentral cacum that is connected with the remaining in testine and the mesentery by three typical pentoneal folds viz (s) The Heorecal vinculum analogous to the pl ca ileocacal s which connects the dorsal me line of the cocum with the ventral side of the ileum and (2) and (3) the right and left vascular mesentericoccecal folds one on each side of the vinculum. ZCZ VERTE.

Eisendrath D N and Schnoor F W: Th Significance of the Jackson Yell Tr Bestern Significance of the Surg An St Louis, 1913 Dec By Surg Cyner & Obst

I rom observations during operations from dissection of cadavers, and finally from examination of ten furtuses the authors believe that the following conclusions may be drawn

The parietocolic fol l of Jonnesco synonymous with the pencolic membrane or lackson veil is a reduci cati a or fold of perstoneum which is con stantly found during f tal or post natal life. This membrane corresponds in every way to the description of Jackson's specimens go en by Hale in his two principal papers published in 1903 and 1913 respectively It is a fine translucent membrane which varies greatly in vascularity

In some of the author's cases there were only a few fine capellaries, while in others the membrane was extremely vascular. The upper border of this right sided pericol c membra e is almost invariably at the level of the benatic flexure and its lower border from one to one and one half inches above the lower end of the carrum In some of the cases the lower border e ther extended a I tile farther down and covered the entire excum and a portion of appendix or fused with the fold of Treves. In the

great majority of cases this fust n did not occur The vessels of the periculic membrane are as a rule directed downward and inward. In two of the authors cases the membrane was as thick as ordipary cardboard and showed practically no vessels in the remainder f the patients the membrane was very thin. The m mbrane extended inward across the front of the colon to the attachment of the mesocolor and e ther fused with the peritoneum cover ing the latter or fused with the om turn along the upper third of th ascending colon. These cases may be called norm ! The membrane being a persistence of a feetal structure hould under no circumstance be stripped if as uch a tep would result in leaving a exten ve denuded surface

I rom the examination of perimens and from observation in the living cases the authors believe that the gent mesentene fold of Reid is the fore runner of the sleopel sc band of Lane and bears the same potential relation t the Lane Li L that the pericol c membran bears to possible kinks of the ascending colon—that such constrictions occur can no longer be doubted One case reported at fords ample proof of the rôle which the Jackson veil may play in the production of acute and chrome obstruction of the ascending colon and carcum but at the present time it is not clear to the authors what causes this change in the periodic membrane from an innocess persistent fortial structure to the form and the control of the control of the other hands of the control of the control that the control of the control of the control there is no control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the there is no control of the control of the control of the control of the there is no control of the control of the control of the control of the there is no control of the control of the control of the control of the there is no control of the control of the control of the control of the there is no control of the control of the control of the control of the there is no control of the cont

In conclusion the authors believe that one of the chief objects of the investigation has been fulfilled by calling attention to the fact that there are two distinct types of pericolic membrane viz (1) Those which are innocent and (2) those which may cause mechanical interference with the function of the colon Each case must be judged upon the operative findings and there is no justification in saving that every pericolic membrane requires inter ference - the majority are perfectly normal struc tures Their examination of fortal cadavers confirms those of Gray and Anderson - that there is a left panetocolic fold corresponding in every detail to the same structure on the right side. It is a constant finding in the feetus and no doubt search for it in the future during operations on the left side of the abdomen will confirm these fortal observations

The treatment of the pathological conditions due to the right pericolic membrane must depend on the findings in the ind vidual case

Lane W. A. Chronic Intestinal Stasis B:

In the ong al article Lane describes very briefly the different situations where intestinal kinks occur He states that the kink at the deo carcal region frequently causes appendicitis The drag by the kink upon the duodenosemnal juncture causes a patency and stagnation in the duodenum tending to regurgitation in the stomach A chronic pylonic spr m causes a dilutation of the stomach. The same stagnation may lead to in flammation of the gall bladder and ducts or to a pancreatitis. The kink at the agmost area leads to stagnation in the colon and secondary stagnation in the mall intestines I be author gives the impres sion that many of the human ill can be n one way or anoth scribed to intestinal stasis e g Bright disease Ray and a disease card ospasm ulcer of the stomach d luodenum degeneration of the heart pancreat to prolapte of organs bends in the uterus tuberculous infections when not produced by direct inoculation rheumatoid arthri tis and changes a the thyroid gland whether as adenomatous tumors general enlargem at of the thyro d or exophtha mic got r etc

When the patient is und r treatment h advises first the use of paraff n daily to act as a l bricant producing one or m re liquid movements a day This failing operative measures are undertaken Resection of the large bowel with an ileocolostomy if easy otherwise merely an ileocolostom; He never performs gastro enterostomy for duodenal distention es en il there be duodenal ulceration Il cicatrization has produced a narrowing a gastro-enterostomy is performed. In ulceration of the stomach with no suspicion of cancerous infection in addition to a short circuit with or without colectomy be does a pastro-enterostomy to take the strain off the lesser curvature by draining the stomach He states that the only risk presented by the operation of short circuiting and colectomy is that of adhesions of the intestines to one another or to the abdominal wall in such a manner as to produce a varying degree of obstruction M S HENDERSON

Vignolo G Mobilization of the Intestine by Section of the Felvic Hescofolo to Re establish Direct Continuity of the Intestine in a Case of Resection of the Signoid Flexure and a Part of the Descending Colon (Mobilus too basile du mescolon pelvas poor rétablis is con ulique et de la porton termunie du colon descend a 1 Rifform send 19 3 ur 800

By Journal de Chirurgie

Vignolo reports the case of a man of 40 who was operated on for an ulcerated cancer of the sigmoid The first stage of the operation was the making of a crecal anus The second was undertaken six weeks later and laparotomy showed that the neoplasm involved a part of the descending colon and almost all of the sigmoid flexure the segment in volved though adherent to the ilia was was easily dissected and removed but on atte ping to approx mate the two ends they were found to be so em apart. The superior segment was a cm above the crest of the thum while the lower one tested in the iliac fossa directed downward. An end to end anastomosis was impossible the end of the pelvic loop could not even be drawn up far enough to permit of a termino lateral anastomosis But it seemed possible to accomplish this by incising the base of the pelvic mesocolon this incision was carried to the sacral promontory and allowed the two segments to be brought together in a side to end anastomosis After tamponing a partial suture of the upper part of the laparotomy wound was Thirty days after the operation the careal nus was closed under local anasthesia 45 lays

afterward the patient had completely accovered to the second of the seco

Duval P: Indications for Intra and Extra Abdominal Colectomy in Cancer of the Colon (Sur les indications respect ves de la colectorne intraabdominale et des colectomies extra bdominales dans les cancers des colons) B II et mêm Soc d' che de Per 1011 XXXIX 070 By Journal de Chirurgie

In the treatment of cancer of the colon there are three methods in use (1) Intra-abdominal colec tomy with immediate suture of the colon called colectomy in one stage (2) removal of the coil of colon from the abdominal cavity with or without the formation of a temporary anus in situ with extra abdominal colectomy afterwards, called colectomy in two stages (3) colectomy with im Colectomy mediate formation of an anus in situ in three stages is really an intra abdominal colectomy preceded by the construction of an artificial anus above the seat of disease

These three methods have been considered rivals and each has had its ardent adherents, but Duval

believes each has its special indications

In the first place the question is unanimously agreed on as far as the crecum, the ascending colon, and even the hepatic flexure are concerned Resec tion of the carrier and the ascending colon is always carned out at one operation All are agreed on one other condition namely where there is acute ob struction. All authorities agree in making a fistula of the cocum in these cases and delaying laparotomy until the acute symptoms have passed

The discussion is therefore limited to cases of cancer of the transverse colon and of the left colon not complicated by acute obstruction. In these cases the indications depend on (1) The clinical conditions (2) the pathological condition of the

colon and (3) the seat of the lesson

1 Obesity heart disease, kidney disuse or chronic intoxication absolutely contra indicate operation in one stage

2 When the upper end of the colon is dilated and especially when it is rigid immediate suture is not indicated unless the two ends are practically equal in size and unless the walls of the upper end are pliable enough to permit of perfect approxima tion and suture Moreover colectomy in one stage to be safe, should be preceded by the establ shment of an artificial anus which will allow the colon to be emptied and disinfected

3 The last point to be considered is the site of the lesion. Some say colectomy in several stages abuild be done on first colons and in one stage on mobile colons. But by performing colo-parietal dissection one can immobilize the colon except, perhaps, the splenic flexure so this destruction would seem to hold good only in cases in that region

J DUMOUT

Jones, D F: Carcinoma of the Rectum B tos M & S J 19 3 cknr 707 By Surg Gyncc, & Obst

Statistics are presented by the author to show that the present treatment of carcinoma of the

rectum is very unsatisfactory The average number living three years after treatment is only 16 per cent Furthermore from 25 to 50 per cent of the cases which present themselves to the surgeon are already in an inoperable condition. The author concludes, therefore that from 4 to 8 per cent of the cases which present themselves to the surgeon are alive three years after operation. In order to in prove these results the author makes an appeal for two things (1) An earlier diagnosis, and (2) a more complete removal of the carcinomatous tissue

The diagnosis of carcinoma is rarely made early and oftentimes a probable diagnosis of hamor rhoids is made. In fact in 10 per cent of the cases which present themselves at the Mayo Clinic, there has been a previous operation for hamorrhoids It may well be presumed that a much larger per centage of cases had been treated in some way for hamorrhoids Many of these cases could, in all probability have been diagnosed much sooner by

a careful rectal examination

The operation which is suggested is a very extensive dissection by both the abdominal and sacral route It depends for its rationale upon the recent study of the lymphatics of the rectal region The main lymphatics follow the general course of the three systems of blood vessels namely the superior middle and inferior hamorrhoidal veisels. In addition there are lymphatics extending from the posterior portion of the pararectal plexus and from the insertion of the levator an muscles these glands empty into the lateral sacral glands and the glands

above the promontory

The technique of the operation is carried out in two stages In the first stage a median abdominal incusion is made the sigmoid is sectioned the in cision being carried down through the mesentery to the inferior mesenteric artery, which is tied by two ligatures and cut. The lower sigmoid and rectum are then dissected from the sacrum the pentoneal leaves dissected from the sides of the rectum leaving all fat attached to the rectum The ureters are found and isolated after which all fat and glands in the pelvis are separated from the pelvic walls and vessels by blunt dissection The rectum is then separated from the bladder after which the distal end of the sigmoid is dropped into the pelvis and the pentoneal flaps brought together over it The proximal end is brought out through the wound and

attached there for a permanent colostomy

The second step of the operation is in most cases,
carned out by the author immediately

The anus is closed by a suture it ligature an incision made about it and the dissection carried up to meet that made in the abdomen The whole mass is then brought out through the permeal wound

In some of the author's cases he has allowed sev eral days to clapse between the two steps Spinal anzesthesia is then used for the second stage sigmoid which has not been cut at the first operation is sectioned the proximal end being inverted and left as an appendage t the colostomy The remainder of the operation is practically the same as when both stages are carried out at the same I H SKILES operation

Depage and Mayer The Surgical Treatment of Cancer of the Rectum (Tra tement characterist) du cancer d rectum) A ch prov de Chr 9 3 xxu
312 By Journal de Ch russie

This report to the Belgian Society of Surgery is a general review in which the authors describe their own method of procedure They lay great stress on the preparation for operation They do not believe in the routine formation of an iliac anus they use it only in cases of obstruction or in cases in which the cancers are moperable because they are immobilized by inflammatory infiltration around them

They purge their patients several times before the operation and empty the intestine by two or three enemas the evening before and the morning of the operation. For several days they give z 5 gms of salol per day

Except in the abdomino perineal operation the patient is placed in the ventral position which ex poses the operative field to good light and also decreases hamorrhage

In case of cancer of the lower part of the rectum the authors practice amputation by the perincal toute which is followed by incontinence while for tumors of the middle portion of the rectum and also for the upper part of the ampulla they use the sacral route Their technique is as follows

With the patient in the ventral position a median cutaneous incision is made passing from the middle of the sacrum to three or four centimeters above the anus, followed by liberation and resection of the coccyx The rectum circularly detached from the neighboring organs below the tumor is then tied with strong silk and cut below the ligature supplementary suture of strong silk hermetically closes the upper segment which is detached from the sacrum and its lateral and anterior insertions and brought down The peritoneal cul-de sac, which is open during these manceuvers is carefully sutured when the organ is brought down far enough The diseased portion of the rectum being resected the two ends are united by invagination the proximal end being drawn through the anal portion and fixed at several points to the skin. If the tumor is near the sphincter the mucou membrane is removed from all the lower part and the upper end invaginated thro gh the denuded sphincter The breach is left open with a Mikulice tampon. In cases where rectosigmoid cancers have invaded the entire rectum the abdomino perineal route may be used

Goepel has recommended the high peritonization of the abdomen incising the wall transversely above the pubis detach ng the parietal peritoneum from the upper edge and fixing it by a few sutures to the posterior pelvic peritoneum thus the greater pentoneal cavity is excluded from the field of opera-tion. In April 912 he had practiced 21 amputa tions of the rectum by this method with only 3 deaths though all other statistics of abdomino perineal amoutation give 25 to 45 per cent mortality

The after treatment is very important There should be an abundant dressing of gauze and cotton which should be renewed as soon as it becomes soiled During the first few days there should be a tolerably strong pressure on the wound. The pa tient is Lent constinated for 7 or 8 days with a pellets of a centigrams each a day

The tampon is removed at the end of 48 hours and a daily irrigation of dilute oxygenated water or potassium permanganate The cicatrization of the wound which requires from 6 to 20 weeks demand great watchfulness especially when as frequently happens a fistula is established in the lower portion of the invaginated segment. It is well when the patient can stand it to put a large drain through the anus into the superior segment. If recurrence does not take place within 6 years permanent recovery is assured GEORGES LABOR

H yes, M R. J X Ray in the Diagnosis of Ab-normalities in the Intestinal Tract Med Prest & C re 1913 xcv1, 342 By Surg Gynec. & Obst.

The author opens his subject with a quotation from a former paper entitled ' X Rays in the Diag nosis of Urinary Calculi which is worthy of repeti tion It follows

Radiology should be employed as an aid to and not a substitute for the ordinary methods of diagnosis. The X ray has proved to be such a short cut in the diagnosis of so many conditions and it has reheved us so much of the necessity of making a careful analytical study of symptoms and signs that we are becoming more and more inclined to resort to it to the exclusion of other trustworthy methods of clinical investigation

The cervical portion of the ersophagus is best seen m the right or left lateral position the thoracic in the right anterior or left posterior oblique. To visualize the shadow bismuth carbonate is given in cachets of ten to fifteen grains each or mixed in the proportions of two to four ounces to the pint of sago and milk arrowroot or bread crumbs. The author reports two interesting cases of complete obstruction of the esophagus caused by the filling of diverticult with food

On fluoroscopical examination the pouches could be seen in each case to fill distention caused dis comfort pressure on the left side of the neck caused the ejection of the contents into the mouth or in clining the head and neck forward and to the right permitted portions of the bismuth to pass into the stomach One patient radiographed four days after the examination showed the pouch still full of his muth

The author contrasts the \ ray picture of spas modic cicatricial and malignant stricture modic stricture usually occurs at the cardia the bismuth bolus appears in an elongated oval mass with rounded head and tapering tail it accumulates above the obstruction, peristalile activity increases, regurgitation but seldom vomiting may occur the pasm suddenly relaxes and the food enters the stomach with a real.

Clearfeld contraction occur usually above the chaphagen the food incide thought an autrow stream peristalice activity becomes violent regurstation may occur but the food never enters the atomach with a rush. Maingnant attricture occurs frequently in men it is located at the cardia or the level of the liberaction of the traches the food pawes normally to the obstraction or into a dilated pouth above it if closure is not complete in a thin stream through it peristing cart in if we are aboven or reverse in action with ejection of food randular shadow may be present.

He next describes the normal stomath in the rect, and formatotic pount in a fine recet the upper two thirds of the lesser curvature is vertical an 1 one and one half inches to the left of the verter fall column the fower one third curve's abruptly toward by median line in the region of the umblitus, the polaries being seen two torches above and for the right the polaries of the p

byperious form as very taxe. The author next discusses gastroptions ulcerabenups and makaganat and hour glass stomach. The degree of pouss can be estimated by measuring the dustance of the greater cutvature above a head creats. The dropped atomach is critical in position district and hypotomic the authority of the district and hypotomic the radiuse end heligationgated and tutudars. If the pylorox is not district the control of the contro

Associated with ul era. I the stomach is often a spasm of the muscle which produces an hour glass-ble appearance and not ricres with normal peristalitic movement. The author has not found that the point of maximum tendericres on palpation and rates the site of the ulcer an I he con viers th's sign mideadom?

The true hour glass t ms h must be differ entiated from the abo contraction of the mid gs in plu ter which relaxes after some minutes or insuppears when the

tomach is massaged
The characteristic shadow I the true hour glass
stomach is that of an n erted cone h pe l ardiac

portion a more or less narrowly constructed portion with jarged margins and a prioric portion, increasing in size with the passage of the bismoth in conjunction with the deodenum, the author

mentions especially a inodenoje intention are notice the sudden descent of the jojunum resulting in dilation of the duodenum with wolent penstaltie activity

He mentions the possibility of demonstrating obstructive lessons adhesions, and kinkr in the firem and colon by continuous observations during the passage of the bismuth through these organs. He gives the normal time for the passage of the bismuth ment at the various points as follows:

2 Pylone in from five to ten minutes.

- 2 Stomach empty in from four to six hours 3 Enters excum in from three and one half to four hours
  - 4 Heum empty, in seven hours
    5 According colon full in it hours
- o. Splenic flexure reached in eight or nine hours. 7 Rectum filing, in the nity to twenty four hours. No pargatives should be given on the cays immediately preceding the examination nor should constitution be present.

Temoin and Baur I A Case of Human Disterntages (Un cas do distorators humane obserté en Berry) lich fros d'Chr 19, 3 xxx, 5%. By jurnal de Lhinage

A woman of 40 had been treated since 100% for symptoms of hepatic tooks we though sander behald a second attack in September 1000 and a third in Notember of the same year. After that me there was a decline in her general health and the betame much emucated and sometomes that attacks of you sings melerna and epogratic pain. In May 1011 a timos appeared which was byd and palaful on pressure and seemed to be located in the greater curvature of the storage.

In June 1911 a diagnosis of gr tric tumor was made. The tumor seemed to be adherent to the wall at the level. I the greater curvature but it appeared to be imited and about the size of a large

but Upon operation in June 911 the tumor was found to be aftherent to the st math which how ever was not lavel ed and the adhesions aere can by freed. The tumor with the part of the wall adhressite to 14 was removed after which the patient rapidly recovered behild and we all.

Histological examination of the specimen showed that it was made up of fatty omental uses the maskes of shich were filled with an infiltration of leucocytes markedly cosmoph in: In the center of this infiltrated area careful examination showed datoms benaticism

Framination of the blood June 19th showed cosmophila which had disappeared by July 8th In the faces examined June 19th there were found neither over not para ites

It s almost certain that the h e disturbance a

the past had been due to distoma and that this focus localized in the omentum through the blood stream, had made the diagnosis possible

Study in the countries where distornasis is com mon shows that there is no very characteristic symptomatology for human distomiasis and it is confused with ordinary affections of the liver However diagnosis is possible in countries where animal distorniasis is prevalent by making a study of the leucocytes and complement deviation and examining the faces for adult parasites or ova GEORGES LABEY

## LIVER, PANCREAS, AND SPLEEN

rez L. Pathogenesis and Treatment of Lithiasis of the Gall Passages (Le trutement et la pathogéne de la lithiase bilaire) Arch gén de By Journal de Ch rura Chir 1913 No 8 9 4

Debrez has made a histological and therapeutic study of 48 cases from Winiwarter's Clinic He divides them into two classes, according to age those below and those above 32 years of age young subjects acute inflammatory symptoms predominate, and often there is impaction of the cal culus in the common duct

The gastric pain so often complained of he thinks is due to the location of the stone in the neck. of the gall bladder. It can be reproduced by orcibly injecting liquid through a fistula in the bladder

He believes that in cholecystitis as well as in appendicitis one attack is an indication for opera tion no time should be wasted by waiting till graver symptoms appear The indications for cholecystectomy and cholecystostomy have been discussed so often that it would hardly be worth while going into this part of the work but for the fact that in Winiwarter's Clinic cholecystectomy is rather the exceptional operation. He preserves the gall bladder only when he fears that otherwise he would have to resort to complicated and danger ous procedures to restore the course of the bile advises a careful exploration of the neck of the bladder and the cystic and common ducts, for he thinks the recurrences after cholecystostomy are not due to the operation tself but to the fact that the bil ary passages were not carefully examined

The second and longer part of the work is de-voted to the pathogenesis of cholelithiasis. He does not settle the question but makes an interest ing contribution to it based on experimental work and laboratory examinations He recalls the theories of the septic and aseptic origin of lithiasis. and the old theory of Maunayn recently taken up by Chauffard He discusses Riedel a dualist theory which Aschoff and Bacmeister defended in 1000 These authors believe that there is a clear distinc tion between the radiate calcult made up of pure cholesterm which origi ate solely from stasis of bile in an aseptic bladder and the ther forms of calcult which originate o ly in an infected bladder

Debrez has studied the two factors of stasis and infection and concludes that there probably is no difference in the origin of the cholesterin calculfor only the covering is of pure cholesterm formed around a mixed center of the same compoution as the mixed calculi Cholesterin crystals arise in the bladder only when it is sterile, the exception being one case where it was infected with typhoid bacili During a septic period the crystals become coated with biliary pigments

F. DESMAREST

Viayo C II Cholecystitis and the Factors
That Control Results of Operation To Western Sure Ass St Louis, 1013 Dec By Surg Gynec & Ohst.

Mayo notes that the results of operation for cholecystitis are influenced by many conditions besides those in the gall bladder itself Among these he enumerates infectious within the liver and bile ducts causing changes in the balance of the acidity of the stomach and of the alkalinity of the duodenum the presence of pyloric spasm and changes in the pancreas He calls especial attention to a group of lymphatic glands extending along the common and hepatic ducts and on the cystic duct and notes that any case of cholecystitis with suf ficient infection to produce symptoms will necessarily affect these glands. In the majority of cases, if these glands are much enlarged one will find a lymphædema of the head of the pancreas as well as an infection of the gall bladder an exception is the general swelling of the mesenteric glands through malignancy or gross abdominal infection. The ma tority of cases of cholecystitis are undoubtedly best relieved by cholecystectomy

Davis C B and Lewis D D: Repair of the Common Duct by Means of Transplanted Fascia Tr Hetters Sarg. Au St. Lous, 1913 Dec B) Surg Gynec & Obst.

Following partial destruction of the common bile duct temporary continuity of the passage of hile between the ends of the severed duct has been attempted in a variety of ways. Sullivan in does and Wilms and Brewer working in man, have used successfully a rubber drainage tube as a link between the hepatic duct and the lumen of the duodenum while new tissue was developing Lewis and Davis have transplanted free fascia from the abdominal wall to bridge gaps in the common duct and to patch partially severed ducts

Dogs were examined and specimens taken for histological examination over a period of one week to two months At the end of two months the fascial flaps were found slive and lined by a layer of mucosa that had extended from the remnants of the common duct The bile had passed into the bonel resulting in normal colored stools Successful repair of the ureter by means of free transplanted fascia was also reported by the authors

Seidel II r Acute Necrosis of th Pancreas (Klausche und experimentelle Betträge zu ak ten Pankreassekrose) Best z ki Ck 1913 lxx 239 By Zentralbi i d ges Chr u i. Grenzeb

Seidel reports ten cases of acute pancreatitis giving case histories in detail. The beginning was always acute except in two instances where in definite stomach and intestinal disturbances pre ceded the pancreatitis by several days The symptoms were those of circumscribed peritonitis six cases there was tension in the region of the pancreas In four cases the urine contained no albumin and six only traces of it. In two cases it contained a slight amount of sugar Cammidge's reaction was tried in four cases before the operation and in three cases afterward. It was positive four times and negative three \ history of alcoholism was found in one case and was probable in two others Seven patients suffered from obesity Gall stones were present in six cases and absent in three. In one case they were not looked for Ar terrosclerosis was found in one case. In another case necrosis of the pancreas was caused by stass in the stomach and duodenum, resulting from a kinking of the intestine \nother patient had a subphrenic abscess which discharged into the pleura and a secondary pleural pancreatic fistula developed.

The author distinguishes three forms of necrosis hemorrhape, necroit, and puritient. He defined symptoms belonging to each and points out that they are merely different stages of the same process. Three of the patients operated upon recovered, while seven died. As far as the pancras utell was concerned the operation consisted of

tampon and drainage

In the second part of the work the author deacribes experimental work that he has done on dogs His conclusions were that bacterial infection through the blood or lymph channels could not be demonstrated as a cause of acute pancreatitis. He is not at all conv need that pancreatic necrosis is caused by embolus thrombosis stasis anamia or arteriosclerosis of the pancreatic blood vessels Stasis of the pancreatic secretion causes only chronic inflamma tory processes and not acute necrosis of the pan The transformation of trypsinogen into trypsin plays an important part in the entrance of toxic substances into the pancreas Seidel bel eves that such toxins may enter the pancreas from the duodenum as well as from the gall passages necrosis of the pancre s may be caused by the differ ent components of the contents of the duodenum and gall passages bacteria gall unneutralized gastric nuce fats, oils soaps fatty acids tryps n etc O NORDEA

Blaziand A. J and Claridg G P C. Remarks on Acute Pancrestitis with Not on Seven Cases Brill J 9 J 4, 5 Ry Surg Gynec & Obst

This article is based on six cases observed by the author all of which terminated fatally — four were operated on and two died undangnosticated. This is at variance with the ordinary statistics, which give ap per cont recoveries. In five of the sir case again stones were present and in the other there was evidence of old inflammatory trouble only one patient gave a history of bulary old. Three patients had had indigestion for a year with or without hermateness in all cases there was sudden cases and copious vomiting. In four of the cases collapse was a marked feature X S Havessee

Be ley F A 1 A D scussi n of Paeudopancreatic Cyata; with a Report of Four Cases F Best ev Surg A St Lous 913 Dec By Surg Gynec & Obg

The author first suggests that the name should be changed the present term not being descriptive of the pathological condition. In a review of the literature he finds that Loyd first accurately described the condition. An analysis of early case reports of so-called pancreatic cysts due to traum seems to show that most of them were probably pseudocysts.

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#### MISCELLANEOUS

Linkenkeld J Interpretation of Post Operative Symptoms, after Laparotomy (Being au Beutelang postoprativer Bechwerden usch Laparotomen) Linke f Gebutik u Gynth 19 3 inn

By Zentralbi f d ges Gynik v Geburtsh.s d. Grenzeb

The author thulus that the appearance of your loss due to post-operate a debauous as exaggrated Symptoms of adhesion as pezar only when the lume of the intestine is temporarily or permanently narrowed, when there is traction on the mesentery or when adhesions of the omentum exert traction These are the decisive points in operations for all the sources of the persistence of symptoms after operation is generally not due to edihesio a veen when they exist but to a fail red fit operation to get at the real cause of the disease. The best procedure, therefore for evonding post-operative difindules is thorough accuracy in diagnosis a d indications, between the contraction of the disease the should be the and dumng the operation. There should be the and dumng the operation.

fewer operations for insufficient indications and more accurate knowledge as to the significance of symptoms in the region of the cacum gall bladder and stamach Of course the formation of adhesions may be avoided by careful technique and by cover ing all exposed places and the stump of the omen tum with peritoneum

Receptorstates

# SURGERY OF THE EXTREMITIES

DISEASES OF BONES JOINTS MUSCLES ETC. GENERAL CONDITIONS COMMONLY FOUND IN THE EXTREMITIES

Fehér A.; Changes in Bones in Infectious Diseases of Childhood (Über Veranderungen der Knochen bei Infektionskrankhelten in Knocksalter) Virokou s Arch f path Anaf etc Berl 19 3 ccrus 195 By Zentrallb. f d. ges. Chr. u 1 Grenzgeb

It has long been known that infectious diseases can cause changes even in the bones (Chiari Fraenkel Assowitz etc) The author made examinations in 35 cases of children almost all of whom had suffered from scarlet fever measles, diphtheria whooping cough Of the 35 cases there were only 7 that showed no microscopical changes, but even among these there were 4 that showed bacteria in the sec tions. In infectious diseases in childhood there is almost without exception a distribution of bacteria in the capillaries of the bones particularly at the boundaries of the cartilage The changes in the bone consist of a collection of lymphocytes in the cavities of the marrow, and in the proliferation of spindle shaped cells of osteogenetic origin. These changes correspond to those of the early stages of nickets and to those that are produced experimentally in animals by giving a diet poor in calcium. The author con cludes that rickets is to be regarded as the result of inflammatory processes MONTER

Klemm P: Changes in Bone Tissue in Osteo myelitis and Its Causes (Übe die Veranderungen der knocherneu Grund betantz bei Osteomy litis und ihre Ursuchen) Deutsche Zisch f Chir 1913 cz. 309 By Zentralbl I d ges Chir u i Grenzgeb

From his study of bones affected with osteomyeli tis Klemm believes that the osteoblasts and all related cells take part in bone production. Absorp-tion of osteomyelitic bone takes place in the follow ing way The infected, prohferating marrow lique-fies the bone without forming sequestra, absorption takes place by lacunar corrosion under the influence of special cells the osteoclasts which are not formed as such, but originate from the osteoblasts and can again change their function and become osteoblasts

Skillern P G Syphilis in the Etiology of Fibrou
Osteitis Am J M S \_9 3 calvi 53 9 3 calvi 53 By Surg Gynec & Obst

Elmslie says Beyond the opinion that fibrous estettis is an inflammatory lesion we must acknowl edge that at present we know nothing of its pathol

ogy Bloodgood has n definite etiological factor Bloodgood has not been able to find any

The author after reciting the history of his case. endeavors to establish premises upon which he con cludes that this if not many other similar cases is due to syphilis of the late hereditary form The patient a man of 22 complained of a left-sided limp He was in perfect health until seven years previous when, having been thrown from a horse he sustained a slight injury to the left hip and was treated for fracture Two years before the fall he had noticed that the thigh was swollen and painful and that the leg was bowed His family history was directly negative but indirectly suggestive

Upon examination he showed excellent general health and condition. The left thigh was greatly bowed the convexity being outward the femur was thickened and roughened but not tender and there were no sinuses nor remains of them. The leg was shortened two and a half inches all of the shorten ing being below the neck. The chronicity of the lesion absence of pain when at rest lack of sinuses or cachesia with a positive Wassermann suggested

syphilis
The skissraph showed an increase in the diam eter of the shaft with an interruption of the medul lary cavity with contiguous areas of bone produc tion and bone absorption and a clear line of pathological fracture

Under a year s mixed treatment and an ambu latory splint together with neosalvarsan twice weekly the condition had greatly improved suffi ciently to warrant an osteotomy for the correction of the deformity

A similar case of Elmshe a is also reported and from these cases the author concludes that fibrous osterus in some cases at least is identical with late hereditary syphilis of the bone

The connection of syphilis with this and other bone diseases of obscure etiology should be thor oughly worked out with the aid now afforded by the Wassermann reaction The disease is curable by conservative measures and may be struck from the fast-shrinking list of bone diseases requiring am putation H A Ports

Percy J F Osteltia Fibrosa Cystica Surg Gyner & Obst 1913 Ivu, 536 By Surg Gynec & Obst

The author describes a case of osterus fibrosa cystica occurring in a girl 23 years old the disease involving both ilu and the heads of both femurs The diagnosis was made by means of X ray pictures

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There was a history of trauma at 6 and 8 years At 12 the patient developed lameness some soreness and pain - at first, on motion later continually The patient was operated upon the cysts of the femur being curetted and four months later those of the left hum were curetted and Von Mostez s bone paste injected The operation relieved her of all pain and gave her a feeling of security in using the

affected rount

The author reviews the literature and calls atten tion to the fact that the disease is not so uncommon as its fadure of mention in the literature of the English-speaking world would indicate He notes that many tumors of bone classed as sarcomatous are undoubtedly cases of osterus fibrosa cystica By analysis of the literature (Boit Rehn Bocken heimer) he shows the identity of osteitis fibrosa cystica, Paget s disease leontiasis ossea and snuffle disease of swine He states that the indications for operation can safely be enumerated as follows

Interference with function and the develop

ment of deformity

2 Pressure upon important vessels nerves and

3 Prevention of pathological fracture from a large osteoporosis resulting from the disease When this occurs operation is contra indicated, as a process of repair seems to be immediately initiated It is the author's behef that when the permitious character of the pathology is considered especially in relation to the ruinous work of the esteoclastic cells a permanent recovery cannot be secured except by rad cal operation

Ridion J Osteochondritis Dissecuns JAm M By Surg Gynec & Obst Ass 013 lm 1777

The author reports three cases and reviews one previously reported by Freiburg. He presents rontgenograms of anterior and lateral views of normal knees and knees showing the above con

His cases are of active vigorous young men presenting knees which have given them trouble now and then through a period of many years which show nothing save a little swelling a lack of full extension at times from contracture of hamstring muscles and now and then give a little pain Noth ing is shown on which to base a diagnosis until a careful study of good rontgenograms is made

His rontgenograms show a detached body about the size of a date seed on the lower surface of the internal condyle or on the outer aspect of the con dyle or perhaps the lower surface of the condyle has lost its normal convexity. All of his cases

refused operation In a review of Freiburg's case the X my shows two pieces separated from the internal condyle On operation there was found a loose body the size of a cherry attached to the internal condyle by a slender pedicle of connective tissue and synovial membrane The cartilage appeared different in color and pressure on it seemed to indicate that I was loosened from the underlying bone. The author does not discuss etiology

Sellheim H The Effect of Castration on the Growth of Bone in the Sexually Mature Organism; and the R lation of Castration to Osteomalacia (Der Emfium der Kastration auf das Knochenwachst m des geschlectsreifen Organismus und Gedanken über die Beziehungen der Kastration zur Ostenmalacie) Zischr f Gebort k z Gynik

1913 lazav, 362 By Ze tralbl ( d ges Gynäk, u Geburtsh s d. Grenzsch

After Sellhelm had found in 1800 from expen ments on animals, that castration performed before puberty nullifies the relative cessation in the growth of bone that normally takes place at puberty he went on with experiments designed to determine the influence of castration on the bones of the

sexually mature organism

He used deer for the experiments. The horas, growing from a core in the frontal bone which are formed during the time of sexual inactivity are shed during the time of greatest sexual activity and the period of rest that follows it. If a male fawn is castrated there is no formation of a bony core or of horns the frontal bone keeps the female form, But if the animal is castrated after the formation of the core there is a permanent production of bone instead of the regularly intermittent growth The demarcation between the horns and the frontal protuberance does not take place at the usual time the horns are not shed. Through the continuous growth of bone proceeding from the periosteum to the periphery an enormous formation develops --

With the removal of the reproductive glands the periodic inhibitory effect on the growth of bone at east of the bony core of the horns, ceases We can therefore assume a causal relation between the periodicity of the sexual life and the periodicity in the formation of the horns. The reproductive glands limit the growth of the body at the time of the greatest reproductive demands upon it - mat ing time and pregnancy Perhaps osteomalacia and the favorable effect of castration upon it is explained in this way If we admit that in human pregnancy the ovary or the changes taking place in it during the puerperium may produce effects later on the m tabolism of the mother's bones, esteemalacta may be regarded as a pathological increase of this effect or if we assume an ab ormal constitution on the part of the mother at as a pathological effect of a process that is in itself normal

Vaughan R. T. Multipl Exostoses An Hereditary Affection of the Bony Skel ton T. B. tern Surg. A. St. Lous. 9, 3 Dec. By Surg. Gynec. & Obst.

The points which are emphasized by the author are That all cartilaginous exostoses are congenital in origin, being demon trable probably at birth though usually not recognized by patients or chin

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cans until years later that the tendency to their formation is hereditary and transmissible that they are frequently accompaned by other developmental defects of the skeleton some of which are character site of the effection and that these tumors may be accompanied by congenital defects of other body structures

The stunted growth of these individuals is what strikes the attention at once. They look like ra of the long bones as do rachitics Their most frequent and characteristic deformity is the defect in the lower epiphysis of the ulua which leads to a compensatory bowing of the radius, accompanied by ultar dislocation of the hand and sometimes dislocation of the radial head especially when the latter is large and deformed Synostosis of the radius and ulna sometimes occurs, as in one of the cases shown and also synostosis of the tibla and fibula Genu valgum and pes equinovarus have been noted Locking of the joints may occur with large exostoses Sometimes the tips of the exostoses are provided with a bursa which at times connects with neigh boring joints

As a rule cartilaginous evostoses and enchondromata spear in the first years of life most frequently between the fourth and suxth years In many or most cases, however the exostoses are first recog must by the physician, since they may cause the patient no symptoms. The more carefully the new superatly with the X ray the more frequently with congenital exostoses be discovered.

The fact that cartilagnous exostoses as well as enchandromata represent ones get all anomabes of the skeleton has not been generally recognized and accepted until a comparate view recent time. Since these tumors are usually not noticed until late in youth when they obtain a considerable are and since the patients themselves usually consider the maximum and the patients themselves usually consider the maximum as acquired affection the medical profession has been late in recognizing their congenital origin. Of late years however there have been a number of cases recorded in which these exostoses were noted at or shortly after birth.

The hereditary character of the affection was known long before the fact came to I ght that these excaloses are frequently or gental and that more makes are affected than females Rennecke Tessuer and Berard Boyer Fischer Sonnenschein and Drescher Weber and others have described such exostosis families

The etalogueal factors of these bony and car talganous growths are practically unknown In several exostous families internatings of near relatives has been noted. According to won Berg mann it is a duesase sus g seris representing a disturbance in growth of the intermediary earliage due to an original defective anlage. Vanous authors have considered that rockets might be a factor in the origin of the affect on. Doubtless numerou mis taken d agnoses have g: en nee to this idea insa-

much as the deformity has been considered due to richets, instead of to the encotoses and their asso cas ed cartilagnous and bony defects. No direct connection between the two diseases has ever been demonstrated positively. Histological examination shows that the arrangement of the cartilage cells in growing existoses is different from their arrangement of the continuous control of the sexual function of the sexual function of the sexual function.

Multiple cartilagnous exostoses are as a rule a harmless affection the disturbances in the wrist and elbow joints being the most bothersome. A few exostoses may on account of their location become very burdensome but are rarely dangerous Those exostoses which lock the joints may be removed. Neuralgia paralysis epidepsy apoplexy defective hearing dystocia in labor and rupture of the uterus exopthalmos rupture of the pophical degeneration have been described.

In view of these severe even if infrequent complications, and the considerable and not infrequent deformaties occurring in this disease the undesirability of the intermatriage of members of existosis families in the light of Mendel's law should be recognized by physicians and eugenists.

Fay O J: Traumatic Periosted Bone and Callus Formation The So-Called Trau matic Ossifying Myositis T Western Surg Ass St Lous, 913 Dec By Surg Gynec & Obst

Fay reports au cases of traumatic intramuscular constitution and reviews the literature on the subject. In four of his cases the brackhalls anticus was the muscle movided in two the vastus medius. In two cases, the ossification followed a dislocation of the ellow in three other cases, a contusion was the determining factor. While in the remaining one the half probably been a righture of the muscle. The

youngest patient was 16 the oldest 50

None of the four theories advanced to explain the pathogenesis of these intramuscular bone formations (the hæmic theory the theory of aberrant sesamoid bones, the theory of periosteal detachment or dis-semination or the theory of ossifying myositis) is entirely satisfactory The first two have found but iew supporters the third does not explain muscle ossification in muscles not overlying the bone while the fourth in so far as it assumes a hæmatogenous infection lacks clinical evidence Histologically the bone mass is found to hear a close resemblance to the callus of fractures the whole picture is that of a reparative process, the damaged connectivetissue cells having temporarily lost their differential function and become osteogenetic Since the term myositis ossificans traumatica emphasizes the in flammatory rather than the reparative nature of the ossification the author prefers the appellation parosteal callus

The early symptoms are those of any contusion

but the functional does not keep pace with the objective improvement and an indurated mass becomes palpable. While the chinical picture and the history of trauma may suggest the presence of a parosteal callus, the radiograph is essential to differential discoust

Operation is indicated where there as functional dushaitive where the parostale callias interfers with the blood or nerve supply. The prognost of the content of the conten

Möllers B Etiology of Hone and Joint Tuber culous (Zur Attologe der Knochen- und Gelenktu berkulose) Deniteks med Hichneis 19 3, 1820 By Zentralbi f d ges. Chu' u 1 Grenageb

While 60 per cent of all pulmonary tuberculous a caused by the human tubercle bacilius and only 1 per cent by the bowne type in bone and point tubercu loss the bowne backlus appears in 1 4,5 per cent of the case. The author bases his conclusions on 12 cases of his own and 150 cases from the hierature and differs from the conclusion of John Fraser of Edmburgh who im 70 cases of children under 3 yra per cent and the human in 27 yra per cent which be attributes to the exclusive milk nourabment in early childhood and the shight resultance of the meantiers (yamh glands. These figures differ from those of all other authors

Rollier A: Sunshine Treatment of Bone and Joint Tuberculosis (Über de Sonnenbehandlung der knochen und Gelenk berk lose) Ziele forließ (Chir 19 3 xxxx, 137 kg. By Zentzibl I d ges Chir i Grenzgeb

Rollier accustoms his patients gradually to com plete exposure to light and the sun s rays for a period of ten to twelve days beginning always with exposure of the lower lumbs and protecting the head eyes and heart During this time there is a total irradiation of 4 to 8 hours divided into 6 to 8 periods Joint tuberculous is treated principally The first step is to remove every sort of immobilizing bandage or apparatus The patient should have a hard bed with a single hard smooth flat mattress over this the sheet should be drawn smoothly and fastened at the four corners There should be a sand pillow and an air cushion under the pelvis A tight fitting cloth jacket that can be unbuttoned is worn on the body. The treatment of the lad-vidual rounts can easily be understood from the original as it is profusely illustrated and follows the general principles of surgical extension treat ment allowing the greatest possible freedom for the action of the sun s rays the abdominal position is preferred

The results of the treatment which is carried on

for two or more years are surpning, there is in provement in the general beathly consisting of suppuration bealing of fittings and absences and restoration of the joints to normal extension anatomically as well as functionally Where no plete saulaght treatment cannot be carned noplete sunghit treatment cannot be carned for Rollier uses deep irradiation with riotigen rays by lesina method avoiding overdosage Surper lesina method avoiding overdosage Surper lesina method avoiding overdosage Surper culta treatment is not used Mayresuc.

Tuffier: Osteo Articular Grafts (Sur les grefies outoriscul ures) B U et mêm Soc de chir de Par 1913 Exxix 1139 By Journal de Chiruspe

TUFFIER reported a case of transplantation of hone and cartilage by Duval The patient a woman of ar had an preducible luxation of the right shoulder He resected the head of the humerus and substituted the head of the first metatarsal from another patient. At the end of six weeks the nations could lift her hand to her mouth and with some effort to her head. In connection with this case he studied the ultimate fate of osteo-articular grafts in another patient. He showed X-ray pictures, taken every 6 months of a young man in whom he had resected the elbow and substituted the tibiotarsal joint of a woman They showed that the internal malicolus had gradually been absorbed, but the remainder of the tibia had assumed its function They did not show what part of the new ion t was formed by new and what by old bone but it could be seen that some pathological process was taking place. The bone on which the graft had been made had been affected with suppurstive osteitis f r two years

Mitnemy says that grafts are absorbed in time and replaced by new bony tissue originating from the old bone. But Rehn says the graft at first under goes cellular degeneration followed by requestion of its own substance. However as the grafted joint permits of normal and useful movements its efficacy cannot be disputed.

MOMERTH is sceptical as to the results of the transplantiation practiced by Duval. He says the functional result obtained cannot be attributed to a mail cute-certaingnous fragme t, but that resection pure and simple would have accomplished the same result. He thinks that many so-called irreducible inzations could be replaced and that even resection is too readily resorted to

Deliber says that the expression art cular graft" used by Tuffier causes confusion because it would lead one to suppose a whole oo t was being transplanted when as a matter of fact, only small osteo-cartilagnous grafts re being made

Successful Transplantation of a whole joint has been performed only once by LEARE He does not believe much in the utility of small grafts. He believes however that bone grafts very well. He treported a case in which a graft from the fibule I ved and fulfilled its physiological function which he considers the important point.

MAUCLAIRE gives the results which he has obtained with osseous grafts for various lesions of the bones without drawing any conclusions as to the efficacy of the procedure in general. He reports

1 Two cases of grafts to repair defects in the diaphysis of long bones resulting from the removal of osteo-sarcoma with recurrence in both

CARCS In intramedullary grafts for fractures of the diaphysis employed in a case of fracture of the humerus be transplanted a fragment of the patient s fibula into the medullary cavity leaving it covered with periosteum. After 18 months there was no pam or disturbance in the function of the arm During the past year he treated six cases of fracture of the tibia with intramedullary grafts from the fibula Four times he had to remove the grafts because of hæmatoma which is produced very secase of mematomic which is produced very easily in the marrow by inserting the graft. Once the operation was well borne but he has not seen the patient since. In the other case radiography shows the fragment of the fibula in the medullary cavity maintaining the contact of the fragments The patient walks well In none of the cases was there any disturbance of function in the leg from which the fibula was removed

In cases of pseudarthrosis grafts from the fibula are of great service of which method Pierre Delbet ad Murphy have reported successful cases

Murphy had a case of depressed fracture of the brain with a large number of uregular fragments which were removed Six months later a very large encephalocele occurred. He applied a fragment of fascia late with muscle attached to the brain the muscle large encephalocele yang next to the surface of the brain to prevent post-operative adhesions. Over this he placed a fragment from the inferor single factor of the surface of the brain to prevent post-operative adhesions. Over this he placed a fragment from the inferor single factor of the surface of the control of the surface of the uniface of the unifa

In another case Murphy treated a similar fracture in a child of a years with complete success although the graft did not entirely fill the defect. The successful result was probably due to the youth of the nation.

3 In graft to replace a bony fragment removed on account of ostetus the fourth metacarpal was removed for chrome tubercular ostetus and replaced by a fragment from the fibula but as the operation was performed: June 1013 it is too early to know the result

4 In partial graft of the joint for ankylosis of the elbow the elbow was resected and cartilage transplanted from the tiba and astragalus I an amputated leg There was a recurrence of ankylosis but radiography shows that the grafted cartil ge is living and well fused with the humers. Niosi F Hæmophiliac Joint Disease (Les arthropathes hémophiliques) Clis chir 19 3 xxi 1707 By Journal de Chirurgie

Niosi reports two cases of hæmophiliac joint disease observed in children in the surgical clinic

of Cecı at Pısa

The first patient a boy of six had been sent in that diagnosis of white swelling of the hance. The with a diagnosi of white swelling of the hance The forest of the degree on the third fideld at an angle of the degree on the third thightly panful on pressure at the level of the internal condyle and there was hallottement of the patella Active motion was impossible passive motion limited but there was no anorecable muscular atrophy

Attention as a stracted by the peculiar course of the so-called what swelling, and a hastory of hemo pluha was elected in the patient and one of his parents. Several times he had had severe ham orthages from insignificant superficial wounds the least blow caused ecchymose and even true ham atomats several times nose-bleed had been so the several times nose-bleed had been so the several times to the several times at the several times and the several times at the several times and times at the several times at the several times at the several times and times at the several times and times at the several times

The only treatment possible was to immobilize the limb and exercise continuous traction on it by means of weights. An apparent cure was effected but two months liter there was a recurrence with out any apparent cause. The treatment was begun

again and resulted in a complete cure

The second case was a child of eight brother of the preceding one. He had an affection of the elbow which had some resemblance to white swelling But he was also evidently a hemophiline, and had had several similar attacks in the sulte and the had several similar attacks in the sulte and the resemble of the sulter of the sulter of the reviews the question of hemophiliac joint diseases Pierre Freder

Brehm O The Origin of Joint Mouse (Zur Kasu tik der Gelenkmause ) Deutsche Zische f Ch q s xx 8

By Zentralbl f d ges Chur u Crenzgeb

The author has had two cases of your mouse which sere typical examples of the two chief clinical types. In the first case there were two very large completely calcified bodies one of them larger than a pitella with a convoluted surface samular to that a pitella with a convoluted surface samular to that of the brain. They were found in the knee-yount of a 56-year-old man. They out had undergone marked manmatory changes and contrary to the usual rule the symptoms caused by the joint mouse were the predominant ones and demanded extipation. In the other case, there were solitary but recurring in the other case, there were solitary but recurring in an author the characters in a practically normal and within the characters in a practically normal fine sulhor agrees with Athatusen a span of the second of the characters of the second of the characters of the second of the second of the characters in the second of the sec

orrhage (Leger) embolism (König jun Müller) or inflammatory processes

The great majority of joint mice are of inflamma tory origin a smaller number of traumatic origin. This anatomo-pathological distinction has no practical value for the question of extrapation depends on whether or not the symptoms caused by the tophi are the predominant ones. In solitary bodies in almost normal joints this is generally the case in arthritic joints with several tophi it is gen erally not true Cases of the latter group, therefore do not generally require operation

Von Manteuffel: Paperim ntal Artheitis Deformans (Uber spenment lle Arthritis delormant)
De t che Zit in f Ch. 1913 1 v 321 Zir ler f Ch 1913 tv 32t By Zentralbl. f d ges. Chir u i Crenegeb

The author gives a detail, I report of experiments which he carried out to produce changes in the skeleton by artificial freezing and congestion Rud nick! in similar experiments on the soft parts, found artificial aclerosis of the vessels and the tissue changes dependent on it Von Manteuffel produced the changes in the articular ends of the bones that are characteris ic of arthritis deformant.

The freezing was produced by d recting a spray of other against the shaved hind leg of a guinea pag for 3 to 7 minutes and the congestion by tying a rubber tube around the th gh for 13 to 47 hours Similar changes were produced by both methods but to a more pronounced degree by the freezing The cells of the joint cartilages stained arregularly and there was a duling of the surface there were hamorrhages in the region of the joint and a con traction of the cartilage with secondary proliferation in the cells of the capsule of the cartilage one or more medulary spaces approached the capsule and consumed it and finally there was a complete dis-appearance of the cartilage and of the entire joint,

with connects e-tissue ankylosis of the two bones The author observed changes in the joint capsule similar to those in the cartilage The vessels showed swelling and then proliferation of the intima cells until finally the whole lumen of the vessel was closed He could not determine an etlological relationship between these changes in the vessel and those in the bones and cartilages He comes to a different con clusion than Rudnicki's as to the soft parts but he beheves he has demonstrated that the changes caused in the joints by cold and congestion may be regarded as an artificially produced arthritis defor K OKE

Treatm at of Tuberculou Hip-Beck, E G Joint Disease with Local line status, by lead of Bismuth Paste Report of 102 Cases Tr Western Surg Art St Louis, 19 J Dec.

By Surg Gyner & Obst.

The author relates his experience in treating 102 cases of tuberculous hip joint disease during the past eight years most of the cases being at the lowest stage riddled with a ppurat ve sinuses. His expen

ence has taught him new points in the treatment of these cases not only from the therapeutic stand point but also from the diagnostic and preventive standpoint. He cites many interesting cases and demonstrates the following points

z It has been found that hip-joint disease in its incipient stage is too frequently diagnosed as rheumatism. Two-thirds of his cases gave the history of having been treated in the beginning for

theumatism or sciatica.

2 It has further been noted that when the du ease had progressed to the stage of abscess forms tion incision and drainage had been employed as a rule a method which is now of course generally con dernned

3 It has also been noted that sacral tuberculous or that of the sacro-iliac joint is frequently taken for hip-joint disease the author having met with five such cases. The reason for this mistake is explained by the similarity of the swelling and contracture of the limb on the affected side which is also found in hip-joint cases. The radiogram is the deciding factor in such cases. This aid had been employed previous to the examinations noted, in only two out of the five cases and the pictures taken were not sufficiently clear to make interpretation possible

Another rather rare complication occurred in four cases namely the hip-joint disease produced a rectal fistula. These belong of course to the most severe type of joint destruction in which the abscess has spread along the path of the fisica usually through the notch below the anterior supemor some then along the pelvic fascia toward the pararectal tissues, and there either opened into the rectum or around the anal opening

5. The acetabulum is affected in the majority of hip-loint cases. Rarely does it break through into the pelvis and allow the abscess to find its way into the pelvis, the author having but one such case on record The shac bone is affected in about 5 per cent of the cases

Kirmisson Malformation of the Tibio-Tursal Joint Known in Germany as Volkmann s Deformity (La malformato de lantaulation this-tarasense consus en Allemague sous le som de dé-formation d'Volkman ) Res d'orthop pig h 5, 385

What is called in Germany Volkmann's deform ity is not as the surgrou of Halle thought a congenital luxation of the joint between the tibia and the tarsus. It is, as B diler has shown, and as kirmisson has proved anew, a malformation characterized by an abnormal obliquity of the line of articulation between the tibia and tarsus, due to an arrest f de lopm at in ac of the bones of the leg either the tibis or the fibuls. These bones are not absent congenitally but they are imperfectly developed

In the great majority of cases it is the lower end of the fibule that is arrested in development there fore the ane of articulation is oblique from below upward and from within outward. The foot presents talipes equino-valgus Volkmann's is a typical case.

In rare cases the deviation is in the form equinovarius as in Burckhardt's and kirmisson's cases. It is best not to be hasty in treatment in this as in most cases of congenital malformation of bones for there is danger of recurrence

During the first few years of life an apparatus may be worn which will enable the child to walk and prevent the progress of the deformity but this

treatment is only palliative

The surgical procedure of choice is thotatrail ankylosis. Tentoinny though overcoming the squine deformity requires the wearing of an apparistus to maintain it. Wedge shaped osteotomy of the most completely developed hose corrects the mailtornation but it does not assure the permittence of articulation persists and tends to reproduce the deformity.

Analysis gets at the cause of the deformity modifies the direction of the line of articulation and brings about definite correction of the deviation of the foot It should be extensive enough to be completely curative kirmsson thinks that it should not be performed until the tenth year ARSERT MOCKET

## SURGERY OF THE BONES JOINTS ETC

Ouenu F and Gatellier J: Treatment of Old Fractures of the Patella (Revue sur le traitement des fractures ancounes de la rotule) Res de chir 1013 alm, 173 By Journal de Chrutpre

Old cases are in all respects worse subjects for operation than recent ones: They are rare however, as fracture of the patiella is now universally treated by early operation. Results justify that treatment, there is not more than one death in 500 cases operated on recurrence of fracture is much arread and restoration of function is rapid and perfect old fractures, therefore are generally those whether there has been some contra indication to immediate open operation.

The suther defines old fractures as those of from us weeks to two months duration. In these there is generally pseudarthrous and no osseous callus the up-or fragment rose to the subcondyloid region and adheres there, the lower fragment moves tobroll the tibas, and both become encapsulated with form of the control of the control of the unique to the control of the control of the cuadroces.

The patient finds walking painful he cannot with an ind ned plane and on unever ground he frequently falls. These conditions cause spra as pidratrinous from blows and repet ion f the fracture on the same or the opposite saide. Operation becomes necessary but is difficult on account of the separation of the fragments. It may consist of ordersynthesis autopli tic oper tion or e en of ordersynthesis autopli tic oper tion or e en of

extirpation of the patella. The methods of several different authors for each are described in the article Lucas Champonnière reniferces the fibrous callus with metal wires which form a hinge. Chaput has performed subpenosteal resection of the upper fragment

Since 1893 the results have been excellent in 80 per cent of cases good in 17 per cent with death or failure in 3 per cent. The samplest procedure should be a support of the samplest procedure should be a support of the samplest procedure should be a support of the sample state of the sample state of the sample centry of the thun may be necessary to secure coaptation. In case of failure of osteony others it is necessary to perform an autophastic operation and Quenu and Gatelber prefer Ferrareas a method of uthkang the quadroceps.

JONG NEW.

Petroff N N Transplantation of Bone (Die freie Knochenplastik) St. Petersburg Ettinger 1913 By Zentralbl f d gra. Chir u i Grenzgeb

This monograph is divided into an experimental and a cluxual part. In the first part the author more a short review of the hierature of the question (Olher Barth Marchand, Axhause Françenbern) From these works and his own earlier work he concludes that the fact of the regeneration of bone after transplantation is confirmed. The topographical distribution of the new layers of bone has even been made out but the question of the origin of this new home is not extitled.

The first law in bone transplantation is that have bone of the same species or better still of the same individual must be used. The author cites his one experiments to illustrate the difference in the practical results obtained by transplantation of bone with and without periosteum and in autoplastic and homophastic transplantation. In 2 rabbits 2 to display significant and in a series of the radius or unlaw were research of the control of the control

In the homoplastic transplantations periosteum alone was weed—a piece of in booseful with a substitution of the most strain and a riv without periosteum. The bone without periosteum was questly absorbed In the autoplastic transplantation the same principles were carried out. The bone without periosteum lived and thrived almost as well as that with periosteum

handhor gives further experiments in repairing shall imprise in 7 cases, dogs and rabbits it defects in the kull were one all by the autopla i closed the aperture firm? I have been from a capacity of the dura matter and the second of the control of the second of the control o

Retair can be effected by any of these m ods
The general rules for bone tran pla
discussed The individual some bone:

orrhage (Lexer) embolism (König jun Müller) or inflammatory processes

The great majority of polst-more are of inflarmatory ongin a smaller number of transatic origin. This anatomo-pathological distinction has no practical value, for the question of extripation depends on whether or not the symptoms caused by the topid are the preformant ones. In solding bodies in almost normal joints this is generally the case in arthritic joints with several topin it is geerally not true. Cases of the latter group therefore, do not generally require operation. Survival

Von Manteuffel Experimental Arthritis Deformans (Über experimentelle Arthritis deformans) Deutsche Zische f Chir 933 erstiv 325 By Zentralbl f d ges Chir u. i Grenngeb

The author gives a detailed report of experiments which he carried out to produce changes in the skeleton by artificial freezing and congestion. Rid nucli in similar experiments on the soft parts found artificial scleross of the vessels and the tastic changes dependent on it Vom Manteutified produced the changes in the articular ends of the bones that are characteristic of arthritis deformans

The freezing was produced by directing a printy of cither against the shaved hand leg of a gunnes pg for 3 to 7 minutes and the congestion by tyng a trubber tube around the thigh for 13 to 41 yab are subset to a more pronounced degree by the freezing. The cells of the joint cartilages attined liregularly and there was a disling of the surface there were hemorrhages in the region of the joint and a contraction of the cartilage with security per contraction of the cartilage and of the expusies and the supposition of the cartilage and of the entire joint with connective-tissue analysiss of the two bones.

The author observed changes in the joint capsals under to those in the cartilage. The vessels showed avelling and then proliferation of the imma cells, until family the whole lumen of the vessel was closed. He could not determine an ethological relationship between these changes in the vessel and those in the hones and cartilages. He comes to a different common than Rudickis; as to the soft parts but be believes the has demonstrated that the changes caused in the joints by cold and congestion may be regarded as an artificially produced arthritis deler

Bock E. G: Treatment of Tuberculous II p-Joint Disease with Coexisting S nos. by Means of Basmuth Paste; Report of 102 Cases P Western Surg Ass St. Lous, g 3 Dec By Sung Gyner & Obst

The author relates his experience in treating rozcases of tuberculous hip joint disease during the past eight years, most of the cases being at the lowest stage indiled with suppurative sinuses. His expert ence has taught him new points in the treatment of these cases not only from the therapeutic stand point but also from the diagnostic and preventive standpoint. He cites many interesting cases and demonstrates the following points

T It has been found that hip-joint disease in its incipent stage is too frequently diagnosed as rheumatism. Two-thirds of his cases gave the history of having been treated in the beginning for

theumatism or sciatica.

a. It has further been noted that when the due case had progressed to the stage of aboves forms toos, incison and dramage had been employed as a rule a method which is now of course generally condemned.

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4 Another rather use complication occurred in four cases manely the impoint disease product a rectal fatula. These belong, of course to the most severe type of joint destination in which the abscess has spreed along the path of the fascia, unaulty through the notice below the interior supnor spine, then along the peter fasts roward the rectum or strought the said opening.

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cent of the cases.

Kirmisson Maiformation of th Tiho-Tareal Joint Known in Germany as Volkmans a Deformity (La maiformation de l'attrolation tubotarissense counté en Allemagus sous le soon de deformation de Volkman) Res Fontés 29 3 No 5-

What is called in Germany Volkmans a deform by a not as the surgeon of Halls though, a congenutal junction of the junct between the thrasnd the taxus It is as Badder has shown, and as Kurnsson has proved anew a malformation characterized by an abnormal obliquity of the of articulation between the thins and turns, due to the lies, either the chain or to fibula. These bones are not absent congenitally but they are imperfectly developed.

In the great majority of cases it is the lower end of the fibul that is arrested in development there fore the line of articulation is oblique from below anchorage is obtained by drawing the tendon through a one auteenth hand dull hole in the bone the firse end of the tendon is then passed through a slit in the standing part of the tendon and six the used! split and the ends brought around the standing part and fastened with several interrupted fine six sutures thus firmly anchoring the tendon to the bone

When transplantation is not feasible on account of extensive naralysis the foot can be made useful by permanently checking the foot-drop Arthrodesis should not be done however in children under 14 years of age silk ligament suspension is consid ered more satisfactory The author uses bichloride braided-ailk size 12 to 16 It is passed through a drill hole bored in the base of the first metatarsal bone from there it is passed within the tendon sheath of the tibudis anticus under the annular bgament to a point 2 or 3 inches above the ankle joint, emerging through a tibial incision. A similar procedure on the outer side of the foot is carried out anchoring the distal end of the silk to the base of the fifth metatarsal and carrying it upward within the sheath of the peroneus tertius emerging through the tibial meision a drill hole is bored through the crest of the tibia and the two silk ligaments secured with the foot held in the proper position Pes calcaneus may be benefited by lengthening the semitendinosus with heavy silk which is inserted into the os calcis Verve grafting after the method of Spitzy

has not met with success in the hands of the author ROBERT B COVIED

Little E. M.: The Treatment of Spastic Para plegia: Littl # Disease B. H. J. 9 3 1 3 By Surg Gyhec & Obst

In considering the treatment of spastic paraplegia under pathology the author quotes Kuttner as saying The subcortical centers are continually purred but not bridled He favors early treat ment As a general outline of treatment he advises measures to aid putting the patients on their feet tenotomies tenoplasties man pulations myotomies etc the main thing to attain being the abduction of the limbs and training Much depend on the These measures fa ling mentality of the patient he advises neurotomy complete as advised by Lorenz though no longer fa oring it partial neu rotomy according to Stoppel or alcohol injection as advised by All son He makes a plea for Foerster's operation for the severe cases. He sees no pred to do this in two stages. He mentions a case of his own which though not ready to be reported is doing well M S HENDERSON

Sharpe W and Farr II B P A New Operatice
Treatment for Spastic Paralysis a Frelimi
mary R port J in W A 19 1 km of the Sharp Gyare & Obst

The authors present a preliminary report fa new method of treatment i pa tic par lysis based on a series of twelve cases. Spasile paralysis frequently results from a lesion of the brain occurring prior to during or shortly after birth. It is characterized by more or less complete paralysis of the part affected associated with stiffness or spasiticity depending upon the involvement of the pyramidal tracts. Athetoid movements of the extremities and Jacksonia polipeliform stateds may frequently be observed. The paralysis and contractures in crease as the child grows older and usually there is a progressive mental impairment. The most common central clot over the cerebrum and the resulting pathological changes. This type forms about 70 per cent of all cases.

The remaining 30 per cent are due to agenesis and malformations of the cerebral cortex to cases of meningo-encephalitis complicating the acute in

fectious diseases

In those cases of spastic paralysis in which the chinical history suggests a cortical lesion and In which there is present an increased intracranial pressure as shown by the ophthalmoscope a right subtemporal decompression operation is performed. If the pressure is not sufficiently relieved by this first operation as econd or left subtemporal decompression is offert the effects of the pressure as the contract of offert the effects of the pressure are contracted to differ the effects of the pressure that the contract of the pressure that the pressure that the contract of the pressure that the pressure that the contract of the pressure that the contract of the pressure that the pressure

The result of this treatment has been a lessening of the spasticity and a definite amelioration of the patient's mental condition. The after treatment consists in overcoming the deformity according to orthopodic principles. Two cases are reported

n detail

One of the most important advantages of this method is the improvement of the patient is mental condition to such a degree that the co-operation of the patient is obtained in carrying out the after treatment Sufficient time however has not clapsed to make any definite assertion as to permanency of results

This procedure is of value in his in those cases of

spastic paralysis that show signs of increase in intracranial pressure. Cases of agenesis and malformati in do in those increased pressure and are therefore easily excluded by thorough and careful examination. \text{\text{more complete report will be published later by the authors. A C Backs SER

Rich F A I limit tions of Lang a Silk Liga ments in Paralytic Surgery and Substitutes Therefor J in M A 1913 in 1979. By Surg Gynec, & Obst

The auth r gr es his personal experiences with silk ligaments in f ri)-eight selected cases. He does not use them below the knee because irritation produced by hoe or lacings necessitates the removal of the best material Homoplastic transplantation should be done only when this not available and in the litter case bone covered with permetand which letter case bone covered with permetand about he used. Transplantation of bone from the capse (filters) should only be used in exceptional cases. The transplantation of the more best secured by wedges of bone in regard to enterphase operations on the skull the author thinks, as a general rule openings in the skull should be closed in fresh traumatic injuries of the skull the primary reimplantation of the migrated bone is to be recon mended. Seventy three cases of this kind are known (fitted Bunge Brewitt, Frank, Schack!)

In secondary operations, Müller Konig s method

or some of its modifications should be used (Hatcher Durante Loutz) and the aperture may be closed with pieces of thus (Seydel) or of nb (Loebnboder). The article also discusses plastic operations on the lower law hones of the face nose symal column and clavide. For the lower jaw parts of the jaw and clavide. For the lower jaw parts of the jaw and clavide. For the lower jaw parts of the jaw for the lower law parts of the jaw for the lower law in the law parts of the jaw for the lower law parts of the jaw in the scar transplantation is of service in rhinoplasty but the Russian maternal on this subject has been treated as a monograph by Pawlod Subrankić. Attampts at outcopistic operations on the spine law been dialocation of a vertibra.

Poljenoff A: Plates and Nails in Bone Surgery (Klammern und Nägel in der Knochenchrunge) Ab ad Gost Krantenh Sambrak 19 3 No 3 6 By Zentralbi f d ges Chir u L. Grenzeb

The author recommends in all cases of fracture where ideal coaptation of the ends cannot be obtained by unmobilization and extension the employment of open replacement and fixation by plates or nails which can afterwards be removed and so leave no disturbing foreign body He has modified Lambott a plates in such a way that there are two nails instead of one at each end and they are perpendicular to the long axis of the plates so that a lateral displacement of the fragments is impossible. In thin long bones where a displacement in the direction of the axis might occur he prevents it by twisting a wire around the end of the fragment and knotting it over the plate The wire is afterwards removed together with the plate under which the edges of the wound are united by sutures decubitus is not necessary The author has successfully used plates and nails in the replacement of pieces of bone with the muscles attached to them He describes 12 cases of fractures and ankylosis of joints in one case he used Stein mann's method of extension with nails

Hatris C H Arthropi ty T St J Ved 0 3 By Surg Gynec & Obst

Arthroplasty may be primary following fresh articular fracture or secondary to replace old,

neglected fragments, or to correct analysised jours Previous to the development of muscle and the cast flags—technique first used about 1665—centes of ten of analysis consisted at theseing through the joint followed by passive and strine motion the results were poor Murphy series motion the pedamiculated lessess flags, but Behn his shown that the pedules not necessary.

the pedide is not necessary
Arthroplasty is indicated in anhyleus as a result
of arthritis fibrous analysioss, and unreduced finetures and dislocations that have resulted conservative treatment and in cases where resection is ofmanded becames of disease. It is contin undicated
in cases before the union of the epidphysis to the
disphysis in old age immediately after severe
frictures during active pathologic lessons in cases
the former alongly of the missele conterned with
the former alongly of the missele conterned with
the former alongly of the missele contend of the
tissue. The author reports four of his cases with
tissue. The author reports four of his cases with

Ryerson E W The Surgery of Infantile Paraly els. J Am H An 19 3 in, 16 4 By Surg Gyner & Obst.

The paper deals with the treatment of penalysis of the legs and trunk, and the author calls attention to the fact that the prevention of deformities during the two years following the onset of the paralysis, the period of spontaneous repair deserves a great deal of attention Precautionary measures such as the use of splints and retentive apparatus massing, and galvance electricity are found efficiency and

The correction of the late deformity must precede or accompany the operation for retaining the part in the proper position. This may include manipulation, forcible redressment or operations on the tendons and bones. The author prefers the open lengthening of the Achilles tendon to the subcatageous tendony as too grast lengthening may

occur in the latter

The principal problem is to retain permanently
the correction attained and this result is brought
about most satisfactorily by tendon transplantation
or by sit. ligament suspension

The Vulpuus method the transplantation of the entire healthy tendon or a portion of it, into the tendon or music which it is intended to strengthen, has been found of value by Ryerson in only a himselfield. It may be used in the arm or forearm of in supplying power t the flexors or extension of the tendon which there is no great amount of strain

The percenteal implantation of Lange gave more satisfaction but was not strong enough: cases of drop foot. In one case two years after operation, there ras found a lengthening of one and one-half unches due to a grad. I attretching of the percenteal att. Ament.

Codivilla s method of nathing th tendous t the bones is not considered so rehable as the d rect suture with silk

Waen sufficient muscles remain to justify transplantation the uthor beheves that the best usually associated with some other malposition of the foot such as varus valgus equinus or calcaneus As to its etiology he states that so called true or

maind cover a ret that caves a practically shown of several property of polonychias of the cerebral cortex of tone neutrats, the dystrophies I take results from mechanical causes as from a shortened limb and from the disturbances of muscles as in the interrosse muscles from short shoes also from primary myosits of the tibula salute.

He then goes into the mechanism of cavus and states that the normal arth is maintained by the shape and arrangement of the bones the muscles facia, and ligaments and that the ngadity of the bones maintains the general form of the foot in paral as of the muscles but that the ligaments and and that the properties of the foot of the parallel and disturbances of the function of muscle are responsible for the development of most deformatics

He states that the muscles of the sole including the long flexors of the toes increase concavity of the arch while those on the dorsum decrease it that the tendo Achilles is the strongest extensor while the tibialis anticus is the opponent that the extensors and flexors of the toes act only indirectly on the arch but that this indirect action is of the utmost importance in controlling the stability of the arch and that this interrelation of the flexors and ex tensors of the toes is so fundamentally important in preserving the normal condition of the arch that if paralytic calcaneus and possibly, congenital types are left out of consideration he believes it safe to say that a perversion of the normal reciprocal action between the flexors and extensors of the toes can account for most if not all of the remaining types of cavus

He explains this interrelation as follows. In rest, the formal foot the balances as perfect with the toes neither in flexion nor extension. Active flexion or extension of the toes affects the flexible arch dorsal extension increases the concavity while plantar firenon decreases in Kormally the change that the plantar flexion flexible and tony injustices. The plantar flexible to the contract of the head of the metataxial bones and the tendous pass over these centers to their attachments to the plantages and

maintain the arch in its normal position when the toes are straight ahead but when the toes are extended then the flexor tendons on the under aidmust be stretched in order to allow the toes to take the new position or the span of the arch must be diminished. The tendon does not stretch but the muscle may relax—normally both take place.

Two sets of flexors the short flexors in the sole and the long flexors passing behind the ankle are concerned in this action motion at the ankle somewhat fifterts the function of the latter Extension of the foot slightly relaxes the long flexors and tends to waken their effect in the interaction but this is slight as they pass so near their axis of rotation at the ankle that flevious or extension of the ankle makes very bittle difference in their ultimate action

On the other hand the dorsal extensors of the too pass a greater distance in front of the axu of motion at the shile and are markedly increased in their capacity to extend the too by strong extension of the foot and thus gain definite power over the flexors that exally maintained their balance in the normal or resting position of the foot. Similarly the author of the arch exchanges of the concavity of the arch of the strong the strong of the strong of the of the arch of the strong of the

In health the various changes are physiological and the normal resting place is readily restured but under pathological conditions the position cannot be assumed or if assumed cannot be maintained. The disturbed action of the fiezors and extensors is usually secondary in nature the real effection being in the synergic muscles the originally affected muscles primarily destroying the balance of the foot and the physiological action of the flexors and exception of the conditions and the physiological action of the flexors and exception of the flexors and the deformatical changed conditions producing the

He then shows how paralysis of the tibialis anticus with resultant foot-drop and the accompanying overtension of the toes produce an increase of the concavity of the arch. Under treatment he states that simple measures

commonly suffice to restore balance in the initial stages while in the fixed deformity great force frequently accompanied by resection of bones and section of the soft issues is often necessary to restore in a measure the normal condition of the foot

1 O MATTACE

## SURGERY OF THE SPINAL COLUMN AND CORD

Golant A J Ankylosis of the Spinal Column (Uber du U beneglichkent de Wubelskule) D arl ion St Petersb 9 3 By Zentralbi f d ges. Chir u Grenzgeb

After a critical review of the literature of the subject the author gir ex very detailed case histones of 9 cases of ankyloss of the spinal column from Bechterew's Clinic and an exhaustive description of the symptomatology and diagnosis of the disease Two of the cuese died and he had an opportunity

to make a careful macroscopic and microscopic examination of the spinal column and the central nervous system in his report he adds a description of fourteen museum preparations. In order to deter muse the changes which take place in the inter-cettman the changes which take place in the inter-cettman and the changes which take place in microscopic carainates a could sage he made a microscopic examinate in the state of the country of the change of the country of the country of the country of the results of his nevertheration as as follows:

I With advancing years changes take place in

the silk. In the shoulder and allow he has used them with gratifying success

He then describes a capsule tucking operation which is does to limit the mobility of particular which he does to limit the mobility of particular older than the mass elliptical skin mensions transversely across the ankle joint retract the tendons and split the ankle-joint maway between its statchment to handle-joint maway between its statchment on the two laws of the capsule are setted with hemometric and are overlapped sufficiently to correct the town one of the capsule are setted with hemometric drop and maintress satured while very leavy throughout a transverse of the setters. In addition he short east endous overlaps faces, and brugs the shin together—manus the slux flags removed—between

the original incisions

He sums up by saying that silk is a foreign body
and its use is not justifiable around the ankle-joint.

J O WALLACE

Singley J D: The Operative Treatment of Hallux Valgus and Bunion J Am M A 913 ixi, 1871 By Surg Gynec & Obst

The author describes a modification of Fowler's operation for hallur valgus He makes the inclusion along the outer side of the metatarsal head close to the bone dissecting all the issues from the dorsal to the plantar surface and daviding the external internal inspirates to that the great too may be delocated inward and reversed exposure the metatarsal land the plantageal surfaces are reshaped with a narrow to the plantageal surfaces are reshaped with a native con cave from before the operator. Both the metatarsal and the plantageal surfaces are reshaped with a native con cave from before backward so as to prevent lateral deplacement. Then the metatarsal end as covered with a flap of fatty fibrous tissue, dissected from surtred in placing the intermediatrial pulse and surtred in place and

The tendon of the extensor proprint hallours is durided and the toereturned topace and sutured the capsule being sutured first, then the overlying times then the slam meason Drangage with a few strands of catgut is advased. The foot is protected afterward by a caps how splint or a splint shong the mner sude of the foot of plaster of Parts to which the toe is bandaged. The advantages claimed for the operation are mobility of the junt and absence of liability to recurrence.

J. I. Pourse,

### ORTHOPEDICS IN GENERAL

Ogilvy C. Recent Progress in Orthopedic Surgety N Y M J 9 3 Reviii, 907 By Surg Gynec & Obst.

Oglvy reviews briefly but interestingly the progress that has been made in the past decade in anterior polomyelities congenital dissociation of the hip operative treatment of Pott's disease, mobilisation operative treatment and rotary lateral curva

ture. His conclusions in regard to rotary lateral curvature are

1 That the fixed type of rotary lateral curvature developed in childhood and persisting in adolescence cannot be perfectly cured

2 That the general condition of the patient can be much improved 3 That the anteroposterior postural deformity

can be corrected.

4 That the lumbar lordosis can be corrected
5 That the lateral deviation of the body can be

corrected
6 That the lateral deviation of the spine is corrected in earlier cases

7 That the rotation of the vertebræ may be

8 That the results obtained by the use of the plaster jacket applied by the Abbott method in figuring with corrective pads are very satisfactory in that the results above enumerated are possible to be obtained in a shorter time (within as months) than by any other method of treatment heretofore practiced. ALGOSS

Colliver J A.: Early Symptoms of Poliomyelitis with Special Reference to a New Preparalytic Symptom Colif St J Med., 913 x1 443 By Sug Gynec & Obst

During an epidemic occurring in Southern Cal ifornia in 1912 the author noted, in addition to the classic symptoms in the preparalytic stage a pecul-iar twitching, consisting of tremulous or convulsive movements of certain groups of muscles, lasting from a few seconds to less than a minute which did not occur oftener than every hour unless the patient was disturbed. The amplitude of vibration was greater than a tremor not so constant and long as a convulsion and more regular than mere twitching yet some of the elements of all being present. It usually affected a part or whole of one or more limbs the face or jaw but sometimes it affected the entire body This condition was often accompanied y a cry similar to the hydrocephalic. At times there was a slight convulsive movement during which the child was apparently unconscious, with eyes set for a few seconds, followed by an immediate return to consciousess. The phenomenon resem bled the condition found in strychnine poisoning except that the tetanic contractions were not general and did not last for any length of time CHARLES MI JACOBS

Parker C A H flow Foot: Pes Cavus. J Am M Ats 19 3 In 886 By Surg Gyner & Obst

The author states that an increase of the longitudinal arch is entirely pormal in some cases but that it may become so great as to cause serious dasability that per curvus is essentially an increased concivity of the arch with a bortening of the structures of the foot, usually assoc, i.e.d with dorsal retraction of the tipes which is no part of the cavus, but bears a important relati, it to the development That it is

26€

of false security and the consequent neglect of other therapeutic measures, such as external support In the discussion of the paper the consensus of

opinion was that these operations are still to be

considered as in the trial stage. Cotton reported some interesting results of experiments he has been doing in the use of spongy bone for grafts his work seeming to show that they are superior to cortical bone for this purpose

# SURGERY OF THE NERVOUS SYSTEM

iche R Stretching and Section of the Perivascular heeres in Some Painful Syn Trophe Distributions (Del Hongaton et de la section des peris pérusachiures dans certains syn dromes douloureut of ongue arthrelie et dans quelques troubles trophques) Lyon 64: 19 3, 1978 Leriche R

Stretching the solar plexus has failed in the treatment of the gastric crises of tabes but Lenche beheves that this procedure devised by Jahoulay should not be dropped from surgical treatment and that there may be other indications for it in troubles of sympathetic origin

He points out three possible indications which are not however sanctional by general practice They are as follows

1 Intestinal syndromes of arterial origin, con sisting in crises of pain around the umbilicus with general or partial distention of the intestine ab solute constinution dyspices crises of enteralgia and vasomotor diarrhoea and certain forms of symptomatic enterocolitis accompanied by out breaks of diarrhora with bloody stools, may be im proved by stretching the solar plexus and sectioning the sympathetic fibers which surround the superior

mesentenc artery at the point where it crosses the third part of the duodenum
2 In subacute inflammation of the arch of the

aorta the agomzing pain and the reflex disturbances angina of the breast vertigo dyspinces, and acute ordema of the lungs are in large part due to in flammatory irritation of the nervous plexus around By resection of the second and third costal cartilages the norta may be laid bare at its point of departure from the pencardium and the plexus freed from its inflammatory adhesions

There are indications for denudation of the large arterial trunks of the limbs in Raynaud's disease and perhaps also in congenital trophic ordema, which Sicard and Laignel Lavastine have attributed to a sympathetic origin and it has been proved in stubborn perforating pleers (Jahoulay lannay Lenche)

The above are only suggestions and have not yet received the sanction of practice They may perhaps appear somewhat dangerous but they are logical In a case of trophic cedema of the leg Lenche performed denudation of the femoral artery n Scarpa s triangle the operation caused a decrease f 2 cm in the circumference of the leg but the case

wa not f llowed up CH. LEVORNAYT Spisharnij J K : Surgery of the Nerve Trunks (Zur Chrurge der Nervenstamme) Verkandl d XII Kong rust Chir, 1913 xu 63
By Zentralbl f d. ges Chir u L. Grenzgeb

The author reports 27 cases which are divided into two groups The first group comprised 15 patients, on whom 18 operations were performed consisting of nerve-anastomosis nerve-suture and neurolysis In the cases of anastomosis the normal nerve accessory hypoglossus, was implanted into a split in the paralyzed facial and the cut ends of the nerve were united by direct suture. If a large part of the nerve was removed he attempted to restore it by stretching both stumps in one case a resected piece 6 cm long was compensated for in this way Primary suture of nerves has no advan tages over secondary since the regeneration of the peripheral section does not take place till after about six months though if the ends are not reunited within this time the regenerated fibers under go degeneration again

In order to guard the nerve which has been au tured or freed from cicatricial tissue from adhesions with the neighboring tissues, the author recommends making a sheath of fascia lata. In 60 per cent of his cases he obtained restoration of function or improvement, but in no case complete restitution ad enterrum Restoration of conduction took place only after considerable time - as long as a year and sensation was restored first then motion best results were obtained in the radial nerve

In the second group are nine cases of resection of nerve trunks among them the three of nerve implantation already mentioned in which complete functional restoration was accomplished. Five times nerve trunks had to be resected in extirpation of tumors Resection of the vagus on one side, in a cases, did not cause any serious symptoms in heart or respiration either during or after the operation. In severe cases of neuralgas of the second and third divisions of the trifacial nerves, he cut the roots of the gasserian ganglion partially excised the latter, and removed the intracramal part of the second and third divisions Besides accomplishing complete cure this operation has the advantage of being less dangerous for the patient Bleeding from the mid die meningeal artery during the operation was avoided by cutting it at the foramen spinosum and stopping up the opening with a piece of bone. The same procedure can be used at the foramen ovale and the foramen rotundum to void regeneration of twigs of the trifacial STROMBERG

the intervertebral cartilages which consust chiefly in a change of the penpheral zone of the hyaine actualing unit osteroid substance as releasation of the fibers of the annulus fibrosus, and in a solidification of the nucleus gelatinosus

2 In primary bony anlylosa of the spinal column the changes in the intervertebral cartilages are absolutely different from those caused by advancing age and may be briefly designated as chondro-

dystrophic ankylosis of the vertebra.

3 The changes in the ankylosed spinal column counst in the formation of bridges between the bodies of the adjoining veriebre in ankylosis of the small joints, and in essification of the ligaments sometimes there is also estepporous.

4. In the different segments of the same spinal column different forms of the above changes may be observed which indicate that they are related in

their pathologic-anatomy

In some cases symptoms of affection of the central nervous system predominate. In these cases autopsy discloses chronic memogitis and degenerative changes of the synal roots and of the substance of the spinal cord which justifies the separation of these cases into a special group called Bechterew's discrete.

6. The other forms of ankylosis of the spinal column described in the literature have not been subjected to a sufficiently careful pathologic anatomical study to enable them to be differentiated. There are 26 illustrations in the work, and a b bit orgraphy of 211 titles.

RIESTRAMSTO

Peltesohn S Abbott's Treatment of Scolools Über die Behandlung der Skolosen nach Abbott) Mei Klus Beit 1013, 11, 125 By Zentraibl i d ges. Chr u I Genzgeb

The author gives a short review of the literature that has appeared on the subject up to this time and a critical discussion of the principles, technique and results of Albotts method. An improvement in solutions can be brought about by a strong pull on the head (Wullstein) and other authors have previously recommended the overcorrection of the production of the control of the solution of the spinal column, which is best suited for the overcorrection and first on the position of flexion of the spinal column, which is best suited for the overcoming of scolutions.

A further important point is the auxiliary effect of breathing in the restoration of the form of the thorax and the careful after treatment. The thirty cases of scolouss of the second and that degree treated with this method by Petresohn have shown good results but on the whole do not permit of a decalive judgment in regard to the value of the method

The question must still be left open as to whether as in Wullstein and Schanz s plaster jacket treatment there is only an improvement in the external form of the body or whether there is a real anatom ical restoration of the diseased part of the skeleton and after how long a time s ch a restoration may be

expected It is certain, however that Abbott a method avoids the severe injury to the organism and the high grade atrophy of the mustless that follows the weating of a plaster jacket for only a few months and the gymnastic after treatment that is necessity to overcome it

Strict indications for the method cannot be given as yet but in the choice of cases there should be a good general condition and the absence of acute information of home. Scalioses of the second and third degree abould be chosen and those with a single round curve seem to lend themselves better to correction than those with short double angular curves. In general Abbott a method must be rearried as a decrease improvement in the treatment

Nutt J J Results of Bone Plastic and Graft Operations on the Spine for the Cure of Pott a Disease J Am M An 1913 in 1780 By Surg Grace & Obs.

DUNCKER

of severe scolosus

Nutt has observed 15 cases of the above, at Sea Breeze Hospital since November 1912. There were 12 grafts from the thias and 4 plastics of the spines of the vertebræ—the results showing nothing to indicate preference for either operation Temperature and weight curies were not affected,

high temperatures continuing after the operation The cases are reported in some detail and the results are tabulated. From the table it appears that the average age of the patients was from 2 to 6 years to being under 4. The duration of the dis ease before operation was from 6 to 24 months in 10 cases the time being unknown in c cases. At the time of operation, the cases were classed as follows Acute 2 fair 3 excellent 3 arrested, 4 The dis ease was, in all cases either dorsal or dorsolumbar External support was removed in from 44 days to nine months except in two cases in one of which no support was used the other having continuous bed treatment Symptoms of insufficient protection appeared in one to six months in the 6 cases which presented definite symptoms of relapse, 7 had no return of symptoms, and in 2 cases it was a question whether the symptoms had been relieved at all The deformity increased in o cases, including 4 classified as having no return f symptoms, muscular spasm being present in all cases showing symptoms

Vutt concludes that the operation was beneficial in 3 cases obtufful in 3 and of no benefit in 9 & cases being still under treatment at a period of from 6 to 18 months after the report these meloding some from each of the bast me toned graper of the properties of the still the operation have not been substantiated (referring to the report of the Sea Breeze Hospital) () After attoon in technique such as implication of long-graft and extension 1 the time of external support may improve the results, but the south between the still th

tion of heat and later prevents drainage from the treated area. Without drainage there is danger from the absorption of large quantities of killed cancer-cells.

Maragliano D: Physiotherapy of Abdominal Shock (Tauterapia dei traumi gastro-omentali) Cla ch 19 3 xxx 1645

By Zentralbi i d ges Chr u t Grenageb
The author discusses in detail the new theories as
to the cause of shock set forth by Freil Timer
Gunnard Berger Churchman Howell and others

to the cause of shock set forth by Preil Tange Gunard Buerger Churchman Howell and others They seem to be agreed that (1) shock is always accompanied by a fail in blood pressure and (2) this fall in blood pressure results from certain nerver referes which may be aroused by different forms of imitation. Maraghano performed a sense of experiments on anasthered dogs designed to clear up the most of action of the stage of the clear up the most of the control of the stage of the clear up the control of the stage of the clear up the control of the stage of the clear up the control of the storage of the clear up the control of the storage of the clear up the control of the storage and the onesatium were graphically recorded

In a series of experiments performed on 5 dogs angsthetized with chloroform only pulling out or stretching the stomach caused a fall in blood pres sure a slowing of the pulse and an increase in its volume These phenomens did not always occur at first but always occurred after the stritation was repeated three or four times In the beginning of the experiment there was often a period of indifference The peritoneal reflexes caused by mechanical stimu lation may come through the sympathetic or the vagi. Von Tarchanoff Crile and others think that the sympathetic is the ch of agent in causing a fall in blood pressure The vagus on the other hand causes changes in the heart's action The author tried to determine the function of the vagus In two animals he cut the yagi in the neck on both sides and after a time carried out the manipulations above described on the stomach. There was a fall in blood pressure but the heart's action was unchanged This shows that the vam determine pneumocardial shock These reflexes are suppressed when either the end organs of the nerves or the nerve trunks are paralyzed He injected novocaine into the stomach omentum and surrounding tissues The results were not convincing but when mixed anasthesia was used on dogs — chloroform and morphine, 2-5 mg to a Lilogram of body weight — there was often a marked use in blood pressure which was repeated with each fresh mechanical stimulation quency and volume of the pulse did not show any further variation

The morphuse or pantopon should be given a half hour before the beginning of the experiment. If a blatte al section of the vags is performed on animals so treated the fall in blood pressure in the changes in rhythm ind quality of the pulse appear again in the control of the c

shock He recommends therefore the avoidance of draumatic shock in operations, the giving of mor phine before the operation and suggests that after the operation the patient should be kept for two three days in a condition of slight morphine stuper He does not discuss the possible effect of this procedure on the lunes and utestures. Horz

Stich R: Present Status of Transplantation of Organs (Uber den heutigen Stand der Organ transplantationa) Desitiche med Wehnichen, 1913 xxx 1865 By Zentralbi I d ges Chr u Greuzeb

The most careful assesss is an essential condition

of success in the transplantation of organs by suture of the vessels Cartels method is the best Artenes and venus which have undergone autoplastic transplantation show under the microscope that the different layers are completely intact while those that have been transplanted to different animals and more especially those that have been transplanted to numls of different species show almost without exception a replacement by the tissues of the body to which they were transplanted Skin transplantations can be carried out successfully an animals that are close blood relations. Perforstrum, bone marrow fat tendons and cartilage have been transplanted between animals of the same species

Autoplastic transplantation has been successful with suprareal glands, epithelial bodies, and ovaries. The longest time during which a kidney transplanted to an animal of the same species has continued to functionate has been three months Remplantation of thyrode glands has frequently succeeded with complete functional activity. The failures have been due to thromboas of the thyrond failures have been due to thromboas of the thyrond organ is lost if it does not take place until latter parts of the thyrond may recover as a result of vascularization from the surrounding tissue.

All attempts at transplantation between man and animals have failed Homoplastic transplantation of the spiten has sometimes succeeded Attempts to to further the success of homoplastic transplantation by serum injections from one animal to the other by serum injections from one animal to the other and with the success of the same conditions and with the success of the same conditions and with the success of the same parabolic union of the two animals by service and the success failed

Reschke K Autopisstic and Homopiastic Transpl intation (Die a topiastische und homoto plastische Transplantation) Disteriation, Berlin, 913 By Zentralbi I d ges Chir Grengeb

In the author's experiments, pueces were removed from the atomach and bladder of dogs and the mucous membrane was dissected off and attached to the butisade of the stomach and bladder in some cases with the mucous surface turned inward in other cases outward. Twenty six transplantations were done to of them autoplastic and it rhomoplas-

tic. The latter underwent necrosa except for a part of the musculars mucosa and were surrounded and penetrated by granulation tasue so that they presented the picture of a connective tusue callus

The bladder mucous membrane, which does not have a musculars mucous was all absorbed. In the autoplastic cases with the mucous sade turned mward cysts of various sace were formed, and where it was turned outtward there were comental adhesions between which and the mucous membrane cysts were also formed. Both stomach and bladder mucous membrane twelf and fooked hite normal tassue. Two of the cysts were examed, and no not of them peptin was sound in the other free and which must have been accreted by the transland that the same than the same th

# SERA, VACCINES AND FERMENTS

Wolfsohn G Serum Diagnosis of Cancer (Uber Serodagnostik des Carcnoms) Arch f il s Chr. 1915 til 247 Bu Zentubl i d. en. Chr. u. Grenzeb

Char 1925 to 247
By Zentralbl f d ges Char a Grenzgeb
The author discusses a number of the methods of
rologic diagnosis of cancer and especially the

serologic diagnosis of cancer and especially the question of their utilization for clinical diagnosis The hamolytic reactions, the complement fixation method, the allergic reactions, and the antitrypsin reaction cannot be used clinically because they are too uncertain in their results Precipitation. congulation, and agglatination cannot be used, for it is too difficult to get a uniform tumor extract that can be kept however the latter reactions may be regarded as specific in a biological sense. mejostagmin reaction with legithin acetone extracts has thus far shown good results, though the material examined is relatively small. As this reaction is relatively easy to carry out it should be made use of in practice. Abderhalden a method of demonstrat ing specific protective ferments has probably the greatest future before it, as it is absolutely specific, both chuically and biologically and gives dependable results even in the early stages of tumor formation STADLER.

Hanser R Thrombosis (Zur Frage der Thrombose)
V rekout A ch f path Annt de Berl 913 cenuigh
By Zestralbi f d ges Chu - Genageb

The author gives a detailed study of the literature of thrombosis and a considerable section of his article is devoted to the theories in regard to it A thorough consideration is given also to the history anatomy, physiclogy origin, distribution and number of the blood platelets. The chief part of the work is devoted to the question of thrombons itself Hanser reviews all the important theories and facts brought out by anatomical chinical and ex perimental research. His own experiments were devoted to the important question of the formation of thrombosis in circulating and in stagnant blood after corrosion of the vessel walls Thrombus was always found in circulating blood but except for the presence of very minute collections of blood platelets, it could never be found in stagnant blood In conclusion a résumé is given of the chemical and physical conditions in the formation of thrombus and the author's opinion in regard to thrombus that he

bas drawn from his own experiments

Kieryschung

Vaughan J W Direct Blood Transfusion. J Mick St M Sec 9 3 mt, 582 Gynec & Obst By Surg Cynec & Obst

In this article but two phases of the subject are considered the indications for direct transfesion and the method of choice The chief indication for the use of whole blood are in conditions where the red cell is needed for its physiological action as in severe hamorrhage from any cause curable surgreatly also after repeated small hamorrhages in which the hemoglobin index is low as in gastne or duodenal ulcer or ulcer of the lower intestinal tract or rectum. In scute infections the addition of fresh blood would not seem to be of much benefit except possibly in purumonia where the cause of death is seemingly closely related to the formation of methamoglobin Freshly introduced red cells thus might replace those which had lost their ability to supply sufficient oxygen to the tissues. In gas possoning or other asphyxias the same indication is present. In these conditions the withdrawal of blood should be done before transfusion in order to nd the individual of non functionating corpuscles as well as a percentage of the gases contained in the serua.

Attention is called to the fact that transfusion is offered one when the administration of serum or of salme would answer the purpose and that the operation is often done where there is no indication, thus bringing the method into distribute

In regard to the method of choice the author believes the only way in which a satisfactory van to-vem anastomous can be obtained in by the use of a method in which a positive pressure under control of the operator can be applied to force the blood into the vein of the recipient. The apparatus

devised by Freund based on the principle first used by Vaughan and Cooley is described and illustrated. It consists of two needles connected to a glass syringe by means of a two-way stop-cock. Above the stop cock is a saline container for diluting the With this apparatus, positive pressure can be applied and the amount of blood given the recipient measured with certainty Its use requires no anæsthetic and it can be performed by any competent practitioner E K ARMSTRONG

Kimpton A R. Transfus on by Means of GI sa Cylinders Boston II & S J 913 class 783 By Surg Gynec. & Obst

The method of the author is comparatively simple and consists in the withdrawal of a definite amount of blood from a vein of the donor and the injection of the blood through the same cannula used for its withdrawal into the vein of the recipient. The vessel into which the blood is drawn is a glass cylinder

completely coated with paraffin

The glass cylinder may be of any size desired but the author has found two sizes 150 ccm and 250 ccm to be the most useful The top of the cylinder is closed with a cork, and a short distance from the top a side tube leads from the cylinder This side tube is used to attach an ordinary cautery bulb to when the blood is being forced into the vem of the patient The lower end of the cylinder is drawn out and a cannula is attached to the drawn-out end The entire apparatus is sterilized and completely coated with an oily mixture of vaseline 2 paraffin 2 and steamn 1

The technique of the procedure is as follows A tourniquet is placed on the donor s arm tight enough to give venous congestion and still allow arterial blood to flow in With novocaine a vein just below the elbon is exposed cleanly and tied proximally a ligature is placed around it d stally but is not fied This ligature raised by an assistant acts as a clamp The vein is now transfixed by a cataract knife and a slit is made \ milar vein of the recipient i pre pyred in like manner except that it is tied distally

The cannula of the cylinder is then inserted into the vin of the donor and held upright until filled by venous pressure It usu lly takes only two to three minutes for a 250 ccm tube to fill Being filled the cannula is withdrawn and held in its side with side plece uppermost to prevent the blood from running out The cannula 1 next inserted into the vein of the recipient and held in an upright position after which a cantery bulb pump is attached to the side tube and by a little pressu e the blood is emptied the cannula being withdrawn while there is at Il I ttle blood left in t

The method b to the autho s knowledge been used fifteen times either by himself or others with out difficulty except in two cases In these there were errors of technique and when they were cor

rected the patients were easily transfused.

Among the dangers of the method acute hilata. tion of the heart is the most import at manifesting

itself by precordial distress, dyspnora and rapidity of pulse Stopping the flow by pressure of a finger on the vein will usually overcome this complication

The method has the following advantages (1) The technique is comparatively simple (2) a trained assistant is not essential and (3) the amount of

J H SKILES

### POISONS

blood transfused can be definitely measured

Ha nes W D; Gas Bacilius Infection with Report of Cases Tr Western S rg Ass St. Louis 1913, Dec. By Surg Gynec & Obst

Haines spoke of the high mortality of this type of infection and the importance of early recognition

and prompt action and referred to the foamy hver' as one of the constant post mortem findings. The intestinal tract is one of the normal habitats

of the gas bacillus and invasion of the adjacent cellular structures may take place through ulcer malignant disease or perforation A case is cited wherein an enormous abdominal

distention from gas bacilius was mistaken for post

operative dilatation of the stomach

The disease appears as a local phlegmonous in flammation characterized by extensive exudate and the presence of hydrogen gas in the tissue spaces Pressure gangrene and profound general toxemia are frequently associated with these clinical mani festations The period of incubation in one of the cases reported was 48 hours in the second case it could not be determined

The bacillus serogenes capsulatus is aërobic therefore success in the treatment will depend more upon free exposure of the infected area than upon

any form of local or internal medication

The report of two cases, one of infection of the scrotum and the other of the arm wherein recovery followed free a cision concludes this interesting

Cumb batch E P: Fatal Leukopenia Following X Ray Treatment A ch Rong Ray 1913 By S rg Gynec & Obst TVIII 187

In his opening remarks the author says actual number of leucocytes at any one time does not seem to be a sufficient guid to decide whether the irradiation should be continued or not case reported is that of a house servant aged 32 years wh h d been ill six months when she entered the hospital Exam ation showed Le cocy tecount 69 000 per mm spleen enlarged diagnosis pleno medullary leukam Arsenic was given for a few days then aree ic and \ ray treatme t together dur

g the 28 days she remained in the hospital eturned for \ ray treatment as an out patient after her discharge The red bone marrow was treated with unfiltered graduations no portion recei ing more than e Sabouraud pastill dose (tint B) each m th The spleen received a filtered ray to protect erlying skin since the latter was radiated

mo e frequently than the skin over the bone Dur ing the first sixteen day a total dose of 7 & pastilles was administered, the leucocyte count fell to 23° 000 per cmm and the patient lost weight. The dose was reduced to one pastille each six days. The patient regained weight and improved rapidly. At the end of 121 days leucocytes had fallen to 4 000 per culue millimetre and the splice nould fur the felt.

under the left costal arch. Tretument was uppended. Thutty-serve days liter the weight had increased seven pounds and the blood contained 6,300 clerco; tep er form 60 of these being myclocytes. The control of the con

she dred

The outbor computes this case with three others
treated in a imilar manner with beneficial results
his conclusion being that in the fatal case the
terminal leukopenia may have been the result of the
heavier douage causing the disappearance of the
normal leucocytes more rapidly than the myelocytes

Faveras C Totaler

Faveras C Totaler

Bondy U: Bactericidal Effect of Viewothorium (V ruche über das bactericide V rhung des Mesothorium) Zentralli / Great 2913 zx vv 114 By Zentralli I d ges Gyak u Geburtch a d Greurgeb

The quick cessation of putr faction in carcinoma tous ulcers after treatment with radioacti e substances, caused Bondy to m ke an effort to deter mine whether it was due to a bactericidal effect of the radiant material, or whether it caused an altera tion in the tissues of such a nature that they no longer offered a favorable soil for the growth of the bacteria. It is known that the ra hum rays have a hartenevial effect. Bondy used as mat rial two metothorium capsules, a flat mica capsule with 5 mg of mesothorium and a silver tube with 30 mg. The results were that the unfiltered rays caused a cessa tion or d minution of the growth in colonies of prodigious and staphylococcus but they had no effect on treptococci and tetam. The filtered rays had no effect. The grays and a part of the β rays are bactericidal the y rays are not As it is chiefly y rays that are used to the treatment of carcinoma the author bel even that the effect of mesothorium on uppuration in arcin ma is due t an alteration in Box LL. the to sucs

### MILITARY AND WAVAL SURGERY

Widerbe S : Military Surgery (Kriegichlurgiche Militerlungen) Kristiania Noth 1913 By Zentraibl f d. ges. Chr. u i Genereb

These contributions are from the First Reserve Hospital in Belgrade where the author had a chance to treat 657 wounded from October 26 to December 15 1912 He emphasizes the importance of the first and equipment as well as the necessity of instructing the soldners themselves in its use Further he mentions the importance of most careful tran portation. The majority of the patients upon entrance to the hospital wore their first bandage I list of the new arrivals was made at once as regar is de gnous, treatment diet and course This list always accompanied the patients when they were transferred to another hospital and was fourd to be very practical Wound treatment consisted of steps sand dry treatment Tamponing sounding or extracting of bullets was used only with special Indications Chafed feet dd not occur and the soldiers used their own footwear soft shoes without heris laced above the ankle. In 90 per cent of all cases the wounds were aseptic and of the cases treated by the author 60 per cent were ready for service after a few weeks. This depended in the first instance upon the small caliber of the bullets, their great initial velocity and hardness as well as the correspond ngly slight injurious action

Of complications arising in the course of the wounds may be mentioned erysipelas a tetanus, a pulmonary embolism a paralysis of a nerve S angursm, 2 Fractures of the upper extremities were the most frequent especially of the humerus, cases noted others numbered 16 fractures Of 66 bullets without exit 52 were extracted 14 patients were discharged without removal of the missiles. The bullets as a rule were not removed through the track of the bullet Of 657 wounded 77 were severely injured 11 7 per cent of these 20, 4-4 per cent were declared unfit for service. The m fection of the gunshot wound varied in the various Beigrade hospitals from 5 to 50 per cent depending on the nature of the lesions In the First Reserve Hospital there were 520 gunshot lesions with 6 cases of hmph ngit s and 24 abscesses or 6 per cent el nical infections. The predom nant part of the gunsh t lessons occurred in the right arm and right houlder The auth r finally reports a few special lesions in detail There were 22 gunshot wounds of the I ng whi h h aled without complications.

Notatio

# GYNECOLOGY

UTERUS

Liegner B: Histology of Carcinoma of the Cervis (Zr H tologic des Caranoma cervis uten)

By Br s Geb rl h w Gynök 10 3 xvm 329

By Zentralbi i d ges Gynák u Geb rish s d Grenzgeb

Liegner reports thirty cases of carcinomata of the uterus removed by operation and describes in detail the histological findings in the individual cases. He did not confine his examination to the uterus itself but also examined parts of the para metrum the vagina and the regional lymph glands. In the summary of his findings he calls attention to the fact that the individual carcinomata show marked differences as to form of cells, structure and growth so that no two are alike. A point of practical value is that the macroscopic and microscopic findings do not agree often a carcinoma is much farther advanced than its gross appearance would indicate and on the other hand the parametrium is often shown by the microscope to be free from carcinoma, though from its appearance it would seem to be infiltrated beyond question For this reason he invariably advises abdominal operation for utenne carcinoma. It is at present not possible to draw any conclusion as to the relative malignancy of the carcinomata from the histological pictures O MEYER

Werthelm: Cancer of the Uterus (Le cancer de 1 térus) Ann de gynée el d'ob ! 1913 xl 302 By Journal de Chruspi

This resume of Wertherm's spare before the London Congress shows that his technique has changed little since his previous communications. He still practice settersize byteserctomy from above downward with section of the waging last. The dressing of pre-operative vaginal infections, instead of being done with gause soaked in bichloride is now done with a 5 per cent solution of intrate of suber to avoid bichlori le poisoning which is rare but possible. Total closure above is made and dramage provided through the v gina. This drain are is not responsible for fasture of the territar They occur in 6 per cent | Lases according to the sultor a latest a steatis.

In ap te of general 1 elopment and progress so per cent of the cases of uterine cancer are inoperable. The operative mortal ty in the latest statistics 1714 c. see is 16 6 per cent. It the end of five years there are a control of progress control of the search of the cases there are a control of the propert cure.

there were 4 5 per cent f permanent cures

Canc of the body f th uterus is it is frequent
and the author c nnt igne extent e at it it is n
regard to t but te th mself with defen in githe
abdomnal operat n n 1 imm it my be a imple
or radical in interect my according to the case and
the extent of the lev n L C SR II &

Rubin I C. The Early Diagnosis of Uterine Cancer with Especial Reference to Diagnostic Excision of Cervical Lesions Diagnostic Curettiage and the Routine Microscopy of Curettings Am J Su I 1913 EVU 411 B) Sun Gynce & Obst.

The object of this paper is to present the diffi culties attendant on our efforts to establish an early diagnosis of cancer of the uterus and to emphasize the value of the diagnostical surgical methods which can be relied upon to accomplish this end innumerable difficulties associated with a correct disgnosis must be considered from the viewpoint of the nationt and from that of the physician The very energetic movement now on foot in this country to instruct women in the recognition of the signs of uterine cancer is timely and necessary but it must be noted that a similar movement started abroad has failed and thus it is clear that little dependence may be placed upon the patient Something may be hoped from warning the public but it is plain from the nature of the disease its insidiousness and the fact that it has taken deep root before the nationt becomes aware of its presence, that one can expect very little aid from the patient in the detection of early carcinoma. The means of detecting it lie solely in the hands of the medical profession and this excellent paper reviews the methods by

which an early and correct diagnosis may be reached. Cancer spreads in the uterus in three ways according to Schottlaender (1) The common endophytic type extending toward the parenchyma of the uterus (2) the exophytic type spreading toward the utering or vaginal canal and (3) extension along the surface mucosa Usually these ways of propagating are combined one type of extension being more prominent than the other Histologically the manner of extension is by direct contiguity of cells or by hymphatic extension. Clin scally the exophytic variety is eas er to diagnose owing to its tendency to appear where it may be seen and to its earl or tendency to illogration, and is therefore the less malignant of the two. The endo phytic variety with the same inten ity of ymptoms usually shows a greater tumor growth The symp tomatology of c neer of the uterus varies according to its actual size and the tissue invasion. The solid ariety causes far earlier symptoms than the glandu

artety causes at cause; symposium cre gamme in a mine in

The routine pathological examination of uteri removed for any cause may bring to light clinically unsuspected carcinomata. Schottlaender found cancer in a per cent of uten removed for various reasons and the author reports several cases of the same nature Particularly during the fourth decade of life should the importance of diagnostic curettage and excision be urged while all curettages performed for the purpose of stopping bleeding should be regarded as diagnostic curettages All carcumscribed erosions with a tendency to bleed or which overlie indurated parenchyma should be excised Of 64 diagnostic curettages for suspected uterine cancer the preoperative diagnosis was correct in 45 3 per cent and in 106 exploratory incisions of the cervix for the same reason the diagnosis had been correctly made in 46 3 per cent of cases. In view of the fact that primary corpus cancer is to that of the cervix as x to x4 the cervix mucosa should unfailingly be curetted

Early cervical carcinoma must be differentiated from (1) Simple follicular erosions cystic and hypertrophic (2) small polypi (3) syphilis (4)

tuberculosis (5) decubitis ulcer (6) protruding submucous myoma.

The criteria for the microscopical diagnosis of young carcinomats are (1) Well marked stypical condition of the epithelium which is converted from a single objudicatal to a metaplastic many layered variety (2) well marked difference in the size of individual cells in abaye arrangement and chromatin content (1) the presence of atypical mitosis (4) the presence of paint cells or gianticess (4) the presence of paint cells or giantices (4) the paint cells or giantices (

While it is not always easy to decide between various types of metaplisate epithelium as to their being or malapant against and the second of the second of

E K. ARMSTRONG

Berkeley C and B nney V Results of the Radical Operation for Carcinoma of the Cer vir Uteri J Obs & Gnec End Emp xiv 0 3 245 By Surg Gynec & Obst

The authors present the results of 71 operations more especially with regard to the profongation of life than to the definite cure. In the man, Wert hema technique has been employed with systematic removal of the glands in the parametric resuse, the obstrator fosses and alog the line vessels. These 71 operations, bosen from 1 2 patients, show an operability rate of 65 per cent representing

the limit of what can be performed on cases of the type coming under observation only refusing or desisting from operation when the growth has gravely involved the bladder both ureters, or the

Glandular metastases were found in 38.8 per cent. The op-rative mortality works out at 22 5 per cent. In 23 cases, recurrence took place although 3 of these patients are alive four years or longer after the operation. The results are this scholled.

ne operation — the results are thus tabulated	
Cases presented for treatment	III
Cases operated upon	71
Died as result of the operation	71 16
Died of recurrence	30
Died of intercurrent disease	2
Disappeared	2
Alive with recurrence	
Alive and well	28

The authors estimate their ideal late result at a 54 per cent the actual late result at a 59 per cent, and the actual accomplishment based on Winter's second formula at 250 per cent. While these results do not enable the authors to claim a large number of cures the life-prolonging effects of the operation on those surviving it seems to be substantiated.

Caraven, J and Merle P: Diffuse Adenoma of the Cornea of the Uterus (Ledenome diffus des cornes utérmes) Res d grate el de chu ablos 913 xxxi, 307 By Journal de Chirurge

The authors report the case of a woman of 3s who had always had painful menstruation and who had had a profuse hemorrhage Laparotomy showed a small hematoma and bilateral hematosal nux. The tubes and uterus were removed

Examination of the perimen showed on the left side a hamatosalpinx containing chononic villi on the right a hydrohematosalpinx without any

At the angles of the uterus there were a large number of urreguls ly shaped cysts of varyang sizes, some almost microscopical and some as large as a gram of wheat forming all together a small diffuse tumor that could ot be enucleated. These cysts were filled with blood and land with cylandrical epithelium which had vibratile cilas in some places. The muscular issue was not hypertrophoch but was covered directly by the epithelium without any connect we tissue untervening.

The essential point about the tumor was the epithelal proliferation. This is true in the most of the cases collected by the a thors. Therefore, they think the term adenoms is preferable to that of adenomyon used by numerous authors.

Tumors of the angles of the uterus have been studied by Chiari, Schauta Barabau Phillet and especially Recklinghausen in 1896. The first extensive work on the question in France was that of Jayle and Cohn in go. These adenom ta are located the point of entra ce of the tube into the

uterus they are often bilateral (15 out of 10 of Recklinghausen's cases) which is an argument in favor of their congenital origin. They are small tumors rarely larger than a hazel nut diffuse non capsulated, not capable of enucleation Sometimes there is an unusual cystic development forming a cystadenoma Sometimes the blood vessels which are normally not abundant become very numerous then we have a telanguectatic adenoma which is Sometimes the cystic cavities are grouped in such a way as to resemble the arrangement of the tubes in the wolffian body. Almost always lesions of the adnexa coexist with them such as cysts of the narocerum chronic fibrous salpingitis tubo-ovarian cysts adenoma of the tubes hæmatosalpınz tubal pregnancy etc.

The nathogenesis of these tumors is generally obscure Some of them without doubt originate from the wolffian body - those that have the ar rangement of the cysts mentioned above some from Gaertner's duct and some from cysts of the paro-The cavities of the adenoma sometimes communicate with those of this structure. But often such evidences of their origin do not exist Some authors say they are derived from adenomata of Muller's duct Ferroni has reported two cases in the course of tubal pregnancy where there was a decidual reaction between the epithelial lining of the glandular cavities and the muscle lying beneath it. In some cases an inflammatory origin is very probable There is proliferation of the mucous membrane of the tube prolongations of which extend between the muscles

Caraven and Merle think their case was of tubal origin but not inflammatory Adenomata of the angles of the uterus have not been diagnosed clinically only the coexisting lesions of the adnexa have been diagnosed. The prognosis is grave for they predispose to hydrosalpinx and hæmatosalpinx and also to extra uterine pregnancy

The treatment consists in the removal of the diseased adnexa and resection of the cedematous angle of the uterus If the lesson is bilateral hyster ectomy with total extirpation of the adnexa should be performed GEORGES LABRY

Infiltrating Hydatidiform Mole (Mole Boni A ésicule re militra te) As d'est i 9 3 N 8 By Journal de Chiturgi

A woman of a had had two normal deliveries at term In 1912 a large hydatidiform mole was discharged She was curetted and no vesicles found A second curettage was performed a few days later and showed nothing abnormal in the uterine cavity For two months the patt nt was well but at the end of that time she had another prof se hemor rhage which lasted sex ral days. A third curettage was done and everal cucles obtained It w s not thought dynable to perform a rad 1 operation because of the extr mely anarmic co dition f the patient She had a high fever for se eral days and

then improved somewhat. On examination the uterus was found to have increased noticeably in size After vaginal hysterectomy was performed the natient made an uneventful recovery

The uterus was normal in form and about the size it would be in a one month s pregnancy The mole was soft and pale in color and in the left cornum of the uterine cavity there was a small irregular mass sprinkled with little vesicles filled with fluid little above the internal os there was also a little growth blush red in color aside from this the mucous membrane seemed normal everywhere else On section of the body of the uterus the mass was found to extend about to the middle of the muscle

Microscopic examination of a fragment showed that the muscle fibers were separated to a consider able depth by little molar vesicles These vesicles were isolated in places grouped in small masses which were separated from one another by extrav asated blood or fibrin. They were made up of a acuolated stroma, often undergoing necrosis and covered superficially with a tolerably regular epithelum In places the spaces containing the vesicles were lined with endothelium showing that they were vascular cavities Around the vessels the muscle was discretely infiltrated with migratory syn cytial cells

The little tumor just above the internal os was also made up of a collection of molar vesicles Around it the muscle was infiltrated with large syn cytial masses the nuclei of which in the majority of cases showed retrograde changes

The tubes were normal. The ovaries contained some little follicular cysts but there was no appreci able hyperplasia of the lutein cells

This was therefore a typical case of infiltrating hydatidiform mole, it was however probably benign The vesicles were shown by histological examination to be contained in the uterine vessels the infiltration of the muscles by migratory syncytial cells was discrete resembling that which is observed in normal pregnancy The nuclei of these elements did not show any karyokinetic figures on the contrary they were undergoing degeneration When the patient was seen again she was found free from any malignant recurrence

It is strange in view of the findings in the uterus that the two curettements after the expulsion of the mole d d not reveal any suspicious fragments. The author concludes therefore that the vesicles which at that time were buried in the uterine muscle later proliferated so that they appeared superficially in the cavity of the uterus XAVIER BEADER.

Ranb II Diffe ential Diagnosis of Viyoma Rich in Celis and Myosarcoma of the Uterus (Zellreiche Myome und Myosarkome des Uterus) Arch f Gy #k 19 3 c 389

By Zentraibl f d ges Gynak u Geburtsh d Grenzgeb

To make a certain diagnosis as to the malignance

of myoma from histological examination the fol lowing points should be taken into consideration (t) Structure of the muscular tissue and its richness in cells (2) changes in the nuclei (3) division of the nuclei (4) content of intercellular f brils (hya hne), (5) giant-cells (6) boundaries of the tumor

Other important points are that z Rich cell content and limited development of connective tissue cannot settle the diagnosis of myosarcoma since ordinary my mate rich in cells

may show the same condition

2 The nucleus in myosarcoma does not show any decided change in form in contrast to that of ordinary myoma.

The mere presence of division of nucles cannot be taken as decisive. It is decisive only if abundant an I examination should be directed chiefly to the youngest parts of the tumor that have not yet undergone regressive metamorphous

 Its aline degeneration is more likely to take place in myomata and is perhaps to be regarded as a

escatineral process

5 Giant-cells have a pecial value in the diagnous of mal grancy They may appear very rarely in benign myoriata but if found they are isolated They appear in great numbers in myosarcoma and with especial abundance in the boundaries of the hyaline masses

6 Benign tumors show sharply circumscribed Myosarcomata do not show a real infiltrating proble ration but a penetration into the

lymph vessels

Dartigues L Technique of Anterior Colpot my

for Fibromyomectomy (Technique operatore de I fibromyectoni tran an ale ensert title pa erljottomie a téneure) Gu d'Hôp et l'izzi 1357 Hy Jarnal d'Chiruppe

This conservate e operation consists in r movi g small subpent neal sessile or pediculated fibroids from the anterior urface of the uterus by the varinal route passing through the antenor cul-de sac of the vagina According to whether one does or does not open the pentoneum it is called fibromy ectomy by simple or extrapent neal colpotomy or abromy ectom) by transperitoneal or sesico-uterine col notom) or anterior colporatiotomy

fter having pulled down the neck of the uterus with two Museux a forceps and inserted a Hegar a metallic bouge in the greter a trans erse wern e reular 1 ct in 15 made on the anterior face of the uterus a little prolo ged toward the sides so that there is an opening [ 3] to 4 cm A in vaginal hysterectom the bladder and th ureters are dissected with the figers

It this point a small parietal or pedicul ted an terior fibroid of the cervix may be r moved without opening the pentoneum this is called fibromy omectomy by extraperit neal or subperitoneal enu

As soon as the small fibroid omes into view it is caught with a pair f f rceps and removed very easily with the aid of the closed point of a par of curved blunt screeors If it is a a bpentoneal int r

uterovesical tumor of considerable size it is well to break it up into two or three fragments

The fibroid removed the place from which it was removed and the edges of the colpotomy wound should be sutured or the site of the fibroid and the anterior cul-de sac of the vagina may be merely tamponed with a gauze pad

If there is a probability of the perstoneum having been opened and the wound bleeds the woun should be opened and if necessary drained in order

to avoid an effu ion of blood in the pentoneum If there are fbroids higher up on the anterior surface or on the body of the uterus the peritoneum

shoul i be opened at the vesico uterine cul-de-sac If possible the uterus may be drawn f reard through the colpotomy wound but this will not always be possible by any means If not a long speculum is introduced through the colpotomy woun! which reaches into the peritoneal cavity and pu hes the bladder up through which opening the

filroid can be seen and felt The fibroid is then seized with a nair of forcers if it had a peduncle this is ligated and cut it is then called and minul polypectomy by anterior colpot omy If it is see ile the uterus is increed with a bistoury the cap-ale opened and the tumor enucleat ed It is then called an abdominal my oma-enucleation by anterior colpotomy. In this case the site of enucleation is sutured the uterus replaced the

perstoneum utured and the vagnal wound repured To facilitate the suturn g of the site of enucleation the edges may be seized with small forceps which

enables the needle to be passed more easily and presents the retraction of the uterus This operation may be combined with other supplementary ones for example with a curettage

a plastic operation or even as in a case of Lejars with a undateral removal of the dnext It can be seen that this operation is very different

from median anterior by terectomy in which the uterus is opened into the cavity t a greater or less

I be sure it only perm t of the removal of very small fibroid as large as a nut, or an approof at the most But it h the ad antage of preserving the ort ent suteru and adness with men trustion and the po sibility f pregnancy a d it prevents the opening of the abdom n which is another feature † DENOST in its fa or

Schottl ender J Th III t logical Diagnosis of Neopla m of the Uterus (Cher histologische Gesch I tdiagnost i im Bereiche de Gebärmutter)

At h f Gyn3k 9 3 5 By Ze traibl i d ges Gynak Gebu tah d Grenzgeb

Lubarsch deems the diagnosis f cancer in pithelial new growths ju t fiable ally if a destructi e growth can be demonstrated with certainty while the mal go cy a sarcom; determined by the character f the cells. The author emphasizes the contradi tion contained in this sentence and states that the malignancy of epithelial new forma tions can in most cases be determined by the character of the cells alone without proof of or regard to a destructive growth He does not con tradict the warning contained in the paper of Lubarsch against deductions free from any objections and from faulty histological findings but emphasizes that the requirements which Lubarach places on the histological examination are too far reaching and would considerably decrease the value of the diagnostic curettage and diagnostic excision E SON GRAFF

Association of Rectal with Lenormant C. Uterovaginal Prolapse (Lassociation du prolapsus rectal t du prolapsus utéro-vagunal) Gr By Tournal de Chirurgi

The association of these two forms of prolapse is merely a coincidence Rectal prolapse is as rare in

women as genital prolapse is frequent This coexistence is explained by common factors which favor the development of both such as deficie cy in the pelvic floor extreme depth of the cul de sac retroversion of the uterus and frequent and difficult labor These causes however are pot indi pensable because we have rectal prolapse in men and the causes are not sufficient of them selves, since rectal prolapse is rare in women though the permeum is often defective. Something more is necessary to explain these cases Quenu holds that both rectal and genital prolapse are true permeal hermas the sac being composed

of the vagina or rectum as the case may be the pressure of the viscera falling on the anterior wall of the rectum or on the retroverted uterus But the sphincter of the rectum is generally intact so this we ght meets the resistance offered by the muscular column of the anus Its maximum force therefore falls on the rectovaginal septum and causes rectocele which is a stage of rectal prolapse Another important factor he thinks is the congenitally abnormal length of the mesocolon The treatment for serious cases of either form of

prolapse in women is hysterocolpexy. The hysteropexy should be done directly rathe than by means of the round I gaments The colpexy should be done in the iliac fossa by vert cal fixation to the psoas after nession of the perst neum in the pelvis by transverse suture t the posterior surface of the aterus and broad ligaments The operation should always be completed by repar of the permeum contraction of the anal canal and reconstruction of the sphin ter L CHEVEL P

Boije Th Surgical Treatm at of G nital Prolapse and its Results (Über die operative Be handl ng on Gen talprolaps mit besonderer Ruck sicht auf die Resultate) Vers mmi d Verd h I sre: Kopenh 9 3 By Zentralbl f d ges Gynak u G b rtsh s d Grenzgeb

Bouje is of the opinion that a aginal plastic opera tion does not give a sufficient guarantee of a good result in complete or almost complete prolapse especially if a severe atrophy of the tissues of the pelvic floor be present It must be combined with a firm ventrofixation of the uterus This procedure should not be used however in young women who might afterwards become pregnant The high amputation of the cervix is important in the vaginal plastic operation because thereby scars are formed in the pericervical tissues which assist in fixing the uterus-disturbances did not occur during labor after this procedure Care must be taken that the blad der be pushed far up Broad and deep scars are formed in the parametri during the process of heal ing of the lateral vaginal walls

Of seventy five cases which were re examined the uterus loosened and prolansed in one case only after the patient had passed through three labors following the operation cystoceles and rectoceles were found in six cases, or eight per cent insignificant ventral hermas in seven cases all the patients were subjectively well S A GAMMETTOPT

Meyer L. The Surgical Treatment of Genital Prolapse and Its Results (Über die operative Behandlung von Gentalprolaps unt besonderer Rück sicht auf die Resultate) Versammi d Aord chr l eret Kopenh 913 By Zentralhl f d ges Gynák Gebu tsh s d Grenzgeb

Meyer strongly opposes Halban's and Tandler's views that prolapsus is a hernia. A prolapse opera tion is not a hermiotomy He attaches great impor tance to the retrodeviations as they are frequently the cause of the subjective sensations of weight and pressure which the patients describe as a sensation of falling out According to Meyer an extensive anterior colporrhaphy and high cervical amputation increase the danger of retrodeviation It is chiefly on account of this possibility that the antefination operations deserve consideration in prolapse With out doubt ventrofixation is dangerous for women who become pregnant It is not only unnecessary but even hazardous to isolate the levator muscles in the posterior colporrhaphy S A GAMMETOFT

Cros en H S : The Conservative Operative Treatment of Long Standing In ersion of the Uterus T Western S : Ass St Lous 9 3 Dec By S tg Gynec & Obst

The article is a plea for the more general employ ment of operati e measures which restore the in verted uterus to a functionating organ in contra distinct n to measures which sacrifice the uterus There is go en a brief review of the growth of con servat e perat e treatment for chronic inversion servar e perair e strainfeil to canonic inversions a resport a résumé and comparison of the operations, a report of a ase n whi h the Spinelli method was employ ed and a presentation of the technique and advantages of the method

The conservat ve operative methods are Multiple incisions into the constricting certical ring (Aran Sims Barnes, 1861)

Dilatation of the constriction ring by a dilator

introduced through an abdominal incision (Thomas 1860, with incisions, Everke, 1800)

1869 with incisions, Everke 1899)
3 Dilatation of the constriction ring by a dilator

introduced through an incision in the fundus uteri (Browne 1883)

4 Division of the constriction ring and adjacent uterine wall and the cervix posteriorly (Kustner 1893)

5 Complete division of the posterior uterine wall and cervix (Piccoli Monsani 1896) 6 Complete division of the anterior uterine wall

and cervix (Spinelli 1900)

7 Division of the constriction ring posteriorly through an abdominal incision (Haultain 1901)
8 Division of the constriction ring antenorly

8 Division of the constriction ring antenorly through an abdominal incision (Dobbin 1905)

In the case reported, of a natient as years of age

who presented a complete inversion of a year's duration the uterus was restored by the Somelli method The bladder was separated from the cer vix the vesico uterine peritoneal pouch was opened the inversion ring and vicinity examined and the cervix divided in the median line The division ex tended up through the construction rung and down the anterior surface of the inverted uterus to the fundus As the incision was extended down the corous uterattempts were made at various stages to replace the uterus but without success until the incision had been extended to the fundus, when the mucous aurface was turned in and the peritoneal surface out The excess of infiltrated corpus uten was then trimmed away until the pentoneal edges of the uter me incision could be approximated. The uterine incision was then closed by deep and superficial sutures and the vaginal wound sutured free drain age being employed The patient recovered prompt ly Menstruction began in two months and has en normal since (8 months) the patient feels well and examination shows the pelvic organs to be

practically normal

The advantages of this method are as follows

T Being vaginal it minimizes the amount of
peritoneal contamination a most important con
auderation when dealing with an infected attricture

2 As the reposition is accomplished by incision there is not the bruising and perforation of the finable uterine wall which has so often accompanied attempted reposition by dilatation of the constrict

tion mag.

3. Division of the antenor uterine will is preferable to division of the posterior will because inmany and a second of the posterior will because inmany and a second of the posterior will consider the
forms the toward the operator, hence are less deeply
sentated and more easily reached. Again when the
operat in is antenor the bladder may be lifted
on away giving a wide space for investigation of the
inversion funnel and of the vannup story and also me resolution, and suturing. Again if there
of a matted buckward tende oy effective forward
attenting of the uterus may be carried out through
fastening of the uterus may be carried out through
fastening of the uterus may be carried out through

the anterior incision. Again, a suture line on the posterior surface of the uterine wall, extending to the fundus is more thely to form troublesome adhesions to the intestines leading to obstruction or to the posterior pelvic wall, leading to adherent retrodisplacement.

The points in favor of the posterior incises are that it eliminates the extra opening for draining and that the sacro-uterine ligaments may be more conveniently shortened. But these minor advantages of the posterior incision are outweighed by the more important advantages of the antenor incision

Schmitz H: A Modification of Webster's Endoperitoneal Shortening of the Round Has ments. Surg Gynec & Obst. 1913 xvn 6 & By Surg Gynec & Obst.

The author dwells on the advantages and disadvantages of Webster's and Altien a intra abdom inal round ligament operations. He describes and illustrates his modification which he has already employed in a few cases. An incision is made in the mesometrium enclosing the round ligament and the latter is divided and loosened down to the internal abdominal ring A ligature is applied to the distal end which is carried by the aid of a Barrett liga ture carner between the folds of the broad hgs ment underneath the utero ovarian beament and brought carefully between the posterior wall of the uterus and its serous covering. The same procedure is repeated on the opposite side. The two lightures are brought out into the abdominal cavity through a small perforation in the posterior peritoneal coat of the uterus and tied a few interrupted chromic catgut statches firmly secure the round hyaments to the myometrium. The proximal portion is now statched to the distal portion so that the round bgament assumes the shape of the letter Y

The advantages claimed are (1) The ligaments remain entirely extrapentioneal (2) the operation depe ds for its success on the mucomuscular attachment, (3) the method returns the strongest portion of the round lagment for its functional use

Farrar L K. Hernia of the Ut rus and Both Adnexse S rg Gynec & Obst 9 3, xvu 586 By Surg Gynec & Obst

The author gives a summary of cases, from literature of herma of one adnexa and herma of the uterus and one adnexs, and then describes in detail bernis of the uterus and both adnexe citing twe ty five cases a d adding one case occurring in her own The patient ge 3 had had five children practice in easy labors Early in her second pregnancy she acquired a left inguinal herma, which was red cible until f ur weeks after her fifth confinement Five weeks later she was seen by the writer who made the diagnosis, after a combined external and vaginal examination f hernia of the uterus and both ad nexe: She was operated upon and the uterus and both adnexe were found to be in the left inguital canal and in normal condition Reduction of the

organs was easily accomplished and the wound closed by Bassini s method. The patient made a complete recovery and has had one child since with no return

of the herma

There is no single cause of hernia of the genitalia but several factors together favor its formation the canal is probably always of congenital origin and in cases occurring in infancy there is commonly malformation or displacement of the genital organs Intra-abdominal pressure or contraction of the round ligament causes the adness to enter the hermal ring. In adult life numerous pregnancies or a previous herms of intestine and early rising after labor with severe abdominal work are the common causes The theories are advanced that in some instances the broad ligament by an adhes on to the internal ring may be the origin of the hernia as in herma of the intestine par glassement and that when the intestine and the ovary are adherent to one another in the hermal sac the ovary has preceded the intestine into the canal

Whitehouse B Menstrual Pain Universal M By Surg Gynec & Obst Rec 19 3 1 385

The author objects to the old classification which takes it for granted that the source of menstrual pain resides in the uterus. He believes that the relationship between the ovary and severe menstrual pain is very close. He mentions a case where the routine treatment for dysmenorrhota extending over a period of several years failed him and he finally decided to remove the uterus and its appendages The right overy contained a large calculus of phos phate and carbonate of lime the size of a large cherry

His second case was a woman of 40 who had al ways suffered from painful menstruation the pain was located in the hypogastric region and was aggravated if the bladder and rectum were full He performed a hysterectomy with the removal of both uterine appendages There was little pathol ogy in the uterus except the typical menstruating endometrium due to the fact that he had operated on the first day of the menstrual period the tubes were slightly congested but otherwise normal The left overy measured 13/2 by 3/4 by 1 inch and showed extensive hamorrhagic condition of the stroma and an immense number of petechial or punctiform hamorrhagic points. The right organ showed a similar condition in a less advanced degree The hemorrhage appeared to be both recent and remote The troma presented dilated capillary vessels, but the majority of the red cells occupied an extravascula position and were lying free amongst the str ma cells The older hamorrhages showed various stages of organization. The tunica albuginea of both ovaries was thickened

The third case was that of a woman so years of age In early life her periods had been painful and the pain had gradually increased in severity until she asked for surgical rehef in order to be self supporting A hysterectomy and double salp neocophorectomy was finally decided upon The uterus itself showed no pathology except that the os externum was decidedly patulous the ovaries however presented a fairly typical appearance described as currhosis

The last case mentioned showed on pelvic exami nation that the uterus was perfectly normal but there was a rounded tender swelling in each posterior quadrant A laparotomy showed that each ovary was the seat of a blood cost about the size of a tangenne orange containing thick coffee-colored

fluid

In treating dysmenorrhora the author advises making a pelvic and rectal examination during the height of the attack. If the cause is ovarian the affected organ will be extremely tender

In the treatment of the routine measures fail to modify the dysmenorrhosa, he believes that there should be a lookout for an ovaman origin and if necessary do an exploratory laparotomy in curhosis of the overy he calls attention to oversen grafting The author summanzes his remarks as follows

The uterus is not always the seat of menstrual

Dain 2 The cause of pain is frequently in the ovary and may be due to cirrhosis hæmatoma calculus or adhesions

Diagnosis may be cleared by a pelvic examina tion during the height of the attack.

4 If the overy is the site of the pain cervical dilatation is contra indicated. If mechanical and local measures have failed collectomy may be performed and the overy explored

5 If ovarian cirrhosis is present ovarian grafting may be employed rather than double cophorectomy

or total hysterectomy

6 The term dysmenorrhosa should be dis-continued it implies a symptom not a condition 7 If classification is required divide cases of menstrual pain into ovarian, uterine and nervous. ROBERT T GILLMORE

gra ma 6 By Sure Gypec & Obst.

The author believes that our modern methods of living are largely responsible for dysmenorrhora So many girls are doing severe mental work and hard mental work and poor nourishment prevent the development of the pelvic organs hence infantile uterus and dysmenor hora result. In older women who must earn their living there is often premature atrophy of the uterus

In cases where there is no disease of the tubes and overses or no adhesions the author uses a silver stem pessary The uterus may be curetted first if the mucous membrane is diseased otherwise not The patient must in every case be surgically pre pared and placed under an anasthetic. He has some patients wear these pessaries for years caref lly selected cases this treatment generally relieves all symptoms C H DAVIS



(Prox t and M rer) Light on I the right Section of the utero-or man ligament The external above barred by alight traction on the clamps and the grooved direct going up on the vessel in search of the ureter

Fabre: External Hysterography (Externe Hysterographie) 7 Inter it Cong Ved Lond 0 3 \u2213 \u2213 By Zentralbi f d ge Gynāk 0 G burtsh a.d Grenzgeb

The author uses tle word by sterography to desig nate a method of automatic regi tration of the uterine contractions during birth He calls it external hysterography when the apparatus is applied to the abdominal wall The contraction of the uterus depends on the expulsive force of the uterine muscles and histerography gi es more information as to the nature and variations of this force than palp tion chronometry or the subjects e feelings of the patient. He gives a description of the apparatus which con ists of a metal plate with an indicator attached a Marey s drum and two rotating chin

dere The ad antages of the hysterographic method are that (x) it can be used at any time during preg narcy labor or the puerperium without danger (a) the respiration and mo eme to of the fortus do not alter the curve (3) the apparatus does not provoke abdominal pains and is easily worn

The author's conclusio s are as follows

z Hysterography gives information i regard to



(Pro t d M r ) I gation I the right The uret ris raised with the internal leaf of peratoneum

the phynological force of the labor pains and also the effect of various forms of medication

2 Small does of chloral hy drate stop pains during pregnancy and regulate labor pains 3 Small doses of sugar pituitrin and ergotin

stimulate pains 4 Morphia lessens the intensity of abnormally

strong pains scopolamine decreases the effectiveness of the pains
5 Chloroform nhalation weakens the pains to a

very slight degree

The importance of ether inhalation here hes in its effect on the intensity f the pains I der the control of the h terograph a comb nation of chloral hydrate ether and morphia can be used to decrease the pain without diminishing the expulsive force of the prins and without ends gering the child's life

Proust R and Maurer A Ligature of the Internal Illi Artery in T t l Abdominal Hysterectomy for Cancer (ligat re de l'artère pour cance )

B) S rg Gymer & Obst dysable to beate the internal

Whether or not t that artery as a p eliminary step in total abdominal



Fig 3 (Frou t d M urer) Ligation of the right internal illuc. The ureter is held internal to the internal illuc, the she ath of the versel is open and the aneurusm needle passed from without in

hysterectom; for cancer is still a disputed question. The authors having first discovered its utility in stout patients have been led to its adoption as a routing measure.

Three conditions are necessary for its proper execution viz

1 The artery should be tied external to the ure ter
2 The artery should be tied at the upper ex

tremity of the principal peritoneal incision
3 The artery should be tied at not more than a
cm from its origi

can it on its orig.

In the r anatomical studies Proust and Maurer have found in the point of crossing of the artery by the unter varies according to the height at which the common line divides on the right it which the common line divides on the right it was extended to the catternous of the properties of the proper

After a long incision through the abdominal wall



Fig 4 (Proust d M er) Ligation f th left ternal time. The h of cision necessary when the sigmoid is short and situated low down

from the symphysis past the umbilicus each iliac fossa is well exposed to its superior border. The fundus of the uterus is pulled forward and the ligation of the right internal iliac undertaken.

The infundibulopelyic ligament is put on stretch and the utero ovarian vessels identified and cut be tween clamps as they cross the upper part of the field Shight traction on the external clamp bares the external diac artery I llows g this arters upward the ureter is generally encountered before the bifurcation is reached. It is raised with the internal leaf of puritoneum without isol ting it from its and exposing the external and neternal thac ven and exposing the external and neternal thac the internal diac is I gated within 2 cm of its origin the aneurism needle carrying the ligature being passed in from without After the ligation of the internal iliac the peritoneal inci on is prolonged toward the round ligament which is cut \ext always keeping external to the ureter the uterine artery is exposed and cut between clamps. The



Fig. 4 (I rouse and M user.) I spation of the left in ternal since. The mg the two lay ra of retrovol factors in the terno-ovarian ligament of lifed and the posterior layer of I was unised. The uniter to seen at the upper namel of the mestors.

central and of the uterine is I gated the peripheral end raised with the superior part of the parametrium and the uterer sposed throughout its course to the bladder

Ligition i the internal diac artery on the left aids is done a full we

It is recourtwood is bust examined and even if only mile 11 hort lowered from its partial at 1 him 1 and 21 is 1 tal both the ligation of the arr r and the 1 m 1 personaution to the wound 1 h 1 is low 1 fram in rd and up mard in ord 1 space w 1 the possible their spine (1 max 1 the spine) and it is a mard in ord 1 spine w 1 the possible their spine (1 max 1 the spine) and it is a mard in ord 1 spine w 1 the protocolor S girl 1 in through the personautia is now in 1 h m, but anch of this in ion is parallel at 0 tril to the 1 mail 1 as evely 1 the left bras h 1 p 1 ll 1 s 1 trust to the descending to low 1 g

This his n m is with ut bleich g with the and of an ad ear our and the clon agmost angle low-ened I h it at a subole are next drawn frut it the right the uter-



Fig. 6 (Proper and VI rer ) I agation of the left in t mal diac. The sheath i the rier, is open the arterlizated from m thin out

o arian pedicle cut at ta superior attachment and the deep layer of retrocube fascia incread along the external bas arters (Fg 6) Th b furcation of the common that is generall reached before the ur ter omes t t view. If the aternal border of the common that be followed upward the ureter is easil id nt bed ind raused with a covering in the out rieal i pentoneum as o th right ide. The nirulda is thine as I seen and it is only necessars t raise the u tra utions the tanc outward to saf gu rist the ig tion of the artery The t trial ( act next bed t tru kexamined and afte ope ung t h thanteno h it i ligated in a sund m on t that the right The nesson extern it to uret t wh a prolonged permits as on the right the ve on fith e tire broad high ment th highig t t the ut rine artery remo al of the beam turn

The a thory was emphasize the fact that the preliminary highton of both in rad has art ries makes the pare much line it has the dissection of the factor in rich in ments are in cluded now colors ligation to hair in the six his following the technique of Lechie The advantages of the authors technique are best realized in the dissection of the pertoneum in the pouch of Doug last the unters are plainly visible and the dissection is practically hoodies. Before opening the vagina the authors follow the technique of Bomm always champing before cutting and securing cut-sur faces with secondary sutures to mesure perfect hemostasis

Since November 1910, Proust and Maurer have proformed the bulateral hastane of the internal hase eight times. One case in which a resection of bludder all als an eccessary because of cancerous militation had a fatal outcome. The remaining seven cases recovered and the operation was so facilitated by the prehumary ligation of the internal lines that the authors are convinced the procedure should become more general.

Leas Premez.

Bland Sutton J: The Visceral Complications
Met with in Hysterectomy for Fibroids and
the Best Methods of Dealing with Them
Brst M J 913: 1 30 By Surg Gynec & Obst.

The author calls attention to the conditions on the borderland of medicine and surgery and speaks of the effects of fibroid on the circulation the thyroid gland, the renal organs, and the serious responsibility of operating when diabetes or cardiac lesions are present. He believes that all patients end to the condition of the condition of the examination before passing into the bands of the surgeon

In patients having valvular murmurs with satis factory compensation the removal of the uterus containing a large fibroid will sometimes relieve an embarrassed heart. Fibroids are frequently associ ated with valvular lesions especially those which result from rheumatic fever also in many women where a submucous fibroid has caused a profound anamia, a loud murmur will be heard on auscultation and a careful examination will show a satis factory compensation. As enlargement of the heart may be caused by the extra work incident to the presence of a large fibroid the author believes that some of the deaths which are attributed to pulmonary embolism occur in women who suffer with a chronic but unrecognized heart disease Recorded statistics indicate that one per cent of women who undergo abdominal hysterectomy for fibroids die of a fatal post operative pulmonary embolism which he believes is often due to the excessive use of buried sutures for closing the incision in the abdominal wall On three occasions the author has removed

uteruses contaming fibroids from patients suffering with goiter followed ux months afterward by a decrease in the gostrous thyroids. A fatal case in which the patient died 56 hours after operation confirms has opinion that women suffering from a work of the complete the confirmation of the confirmation of

As a rule d abetes is a contra indication for hys

terectomy especially so in young women All wedgence tends to show that there is some relation between the hypophysis and the general present and the control of the control

A large submucous abroid produces simular changes in the uterus to those set up by the growth of the fectus, associated with sugar in the urine

Women suffering from large cervical fibroids frequently have albumin in their urine which disappears after operation A systematic examina tion of urine within 36 hours after pelvic operation showed in nearly all cases the colon bacilius. The author is as unable to explain why this is so as is the obstetrical physician unable to give an opinion as to why the urmary system is invaded by the colon bacillus in the pyelonephritis of pregnancy After the operation should the bladder remain empty miury to both ureters should be suspected an injury has occurred to the ureter during the operation the surgeon should attempt to anastomose the cut ends If he fails in this he should implant the proximal end in the bladder wall notwithstand ing that the prologists insist that when this is done it becomes scierosed by chronic urethritis which narrows and finally obliterates the lumen After citing several remarkable cases the author states that it is possible that a ureter has been tied in the course of a hysterectomy and the patient has recovered without anyone having a suspicion that such an accident has happened

Intestinal adhesions are rare unless there has been an infection of the uterus or fallopant tubes. There may be a complication of cancer of the intestines and in such cases he completes the hysterectomy and then exuses the cancer and does an end to end anastomous if the patients condition juxtifies it—anastomous if the patients condition juxtifies it—times a differentiation bear formed and cancer of the colon is very difficult.

There are the secondary operation to be down the secondary of the secondary operation of the secondary operation secondary operation secondary operation becomes the secondary operation becomes the secondary operation becomes the secondary operation becomes the secondary operation secondary operations of the secondary operations of the secondary operations the secondary operations of the secondar

ROBERT T GILLMORE,

Beutiner: Transverso Excision of a Nedge from
the Fundu of th Uterus Freeceding Bilateral
Extripation of the Adness to Maintain Alea
extrustion (De transversie fundale kellerosso
des Uterus als Verskt sur Ex traston doppeliering
eitzaukter Adnesse mit Faltung der Mestraston)
T iten i Cong Med London 19 3 Aug
By Zeutnik! I dig est Opak Geburths 4 defengels

This method is based on the principle enunciated by Faure that operation on the adnexa should be

from the midi ne toward the pelvic walls and from below upward. A transverse wedge haped excusion is made from the funder of the uterus after orelin lary I gation to prevent herrorthage. The excised wedge is just in the millle and each piece freed from the corresponding broad ligament by one increion with the serisors after which the wound which extends to the u erine cavity is sutured First the left and then the right adress are removed from below upward an I from within octward and the broad Learnent is satured. The panetal pertoneum of the anterner al lominal wall is then su tured to the upper posterior wall of the uteru from left to right fu t back of the entured aterine wound which is thus to a certain deeree I mucht outside the pentoneum as I the uteru which is often found in fixed retrofesion is I rought into a position of permanent molile an eff ion The ad antages of the method are that it is ures the maintenance of the m retrust function an indivisies the possibility f by nic rectriti The results are that mentional diest lero I carriers and the men tru al flow becomes permal in amount and furation.

## ADDEXAL AND PERIOTERINE CONDITIONS

Caret no J H : A Seven Pound Grarian Trimot
That Bevel ped in Sine Bays. Am J Cit., S
1413 Inc., S
By S of types & their

t adec the above centil a Carstens relates the history and operate a find age of a case of a sample char of the orach appr are obcarred along ph you nine d ye after the patient noticed abdomiral en abdomen had enlarged over night. The swelling capally increased in size and the patient began to have symptoms of f fection to other symptom being noted In ove i n eyet a th twisted per cle and infected contents na removed by the author who believes that the evet wa trally of longer fura tion and that previously it lay in the true pel is. but outgrowing its bed it was I livered overnight into the absormen and that twisting of its redicie explain its further rapidity of growth an I fts infec tun herr cry of the patient followed the opera Smost Hee er tlon

Porter M. P. t. Sarcoma of the Ovary To B. rie Surg 411 vort. Dec. By S. rg. Gyme. & Cont.

The author based 11 conclusions upon a compretensive axis by of the herature in luling 3 of cases from the control of the control of the control for the cases of the author making you in 1. Man surroundat of the owary has been overlinked in the pat. Lexau e of incompte in invocopical study and for the same retusin many turn in of the owary were cit seed a surrountat which is resulty were not surroundat a sall. Were more the percentages of its observer secondary to go also of owners turnov were find the percentage of surroundat to all sulter tumors to be 50 per cent. owanas tumors are malgrant and about 5 per cent areastromators. Contrary to the rule surcommothe ovary frequently levolves both spans. This double involvement occurs in about 20 per cent of cases and the growth is own y rapid. Surcornta of the owas on palpation are found in the rajority of the cases to be solid or semioably. The sactice is congretion with orana tumor indicates malgrancy but not, the character of malgrancy, for does the late of the solid programs.

Surceration it was hoften found in demodi, and about to or 12 rays of caranisous mona for he ovary lave here reported. Round-cit surcours a are more common in 4 do young and punfe cell more common in adults. There is great directly including malignant turn of the owary and the diagnost is selfour mit he save at persistion or post or irra. I chose a only of earth case on the light of our pre-cent knowledge will make it possible to mite the diagnose of the control of the diagnose of t

Is n a a prominent amptom a more than one third of the cases D turbunces of menutruation are more commo a in real guant than sa ron rade, ment tumors especially is this true of amerorrheea. The mortal ty of the operation is much higher in children than in a fult The ultimate prognous seems the best in fl rourcoms although a perma rent cure can be expected only in about to per cent of all cases however en n in desperate cases the resu to of the opera son are sometimes suspending. Seel gman reports the accessful treatment of a rase of meta ass in the aronal cord by X rass and by arracets injected intraversusly. One case of rure lasting over a period of two years a reported as follo ing operation and subsequent administration of Coles a fu f

Kudohi III togenesi of Dermoid Cysta of the Dusty (\* m vind in der Hetterenee der Orandderfruide) Te Internat Conf. Met. Loof 1913 Aug. 2011: 11 de etc. Cynak is Geburish a.d. Greuzeb

The author gives a thorough review of the I tent of the subject with a detailed report of the cases of his own p. nog results of rearrowing layers were found in the preparations. Layers were found in the preparation, but had not opposed to the theory of mughiered shir cleans to and also to flund or a theory of exclusional properties of the form in the own contrast to infertituded out.

Policeson A and VI I t H C) to of the Orary Due to Tuberculosis (Let productions b) tiques de los re biers ha a berculose) L the 19 5. F 140 By Journ I de Chruger

in addition to the clusteal type of tuberculos s of the ad cas which is certainly a sy frequent Pollosson and Violet have described an inflammatory tuberculosis of the adnexa the most important types of which are primary hydrosalpinx and microcystic overs.

They endeavor in this work to confirm clinically the existence of such a condition of the ovary and there are three Linds of cases on which they base

their conclusions

In the first place there are the cysts of the owary which are met with in the course of the development of follocular tuberculous of the tube or pen toneium. Sometimes these are small multiple cysts sometimes they are cysts as large as an orange in minart's bed or even an adult's head! In one of their cases there was a cyst containing two quaris ever evolenity tubercular.

In the second class of cases there are polycy stic ovaries or large serous cysts of the broad ligament associated with old tabal or peritoneal tubercular lesions which are now latent but have left peritoneal adhesions or caseous deposits in the tubes

The thrd class of cases are more numerous but less evident. Here the ovarian cysts are not accompanied by any visible tubercular lessons but preceding events or their final development preceding events or their final development proposed the results of the preport several cases in young somen in rabber poor health, with irregular menstruation. Bloody cysts of the corpus luteum of varying sues were remo ed and afterwards they recurred in conjunction with plumonary or gential tuberculous.

The anatomical type of these tubercular costs is variable they may take the form of a microcystic obphonits there may be a large number of serous or bloody cysts unlocated or multilocate there may be follicular cysts or cysts of the corpus inteum. Clinically they differ from neoplastic cysts in that they may disappear from absorption of their contents or from public

The symptoms are those of chronic cophoritis irregularities of mensituation generally in the direction of retardation diminution of the flow and from time to time prolonged metrorrhaps; inter mensitual or premeasirual pain and stenhity incuently associated with an exaggeration of the frequently associated with an exaggeration of the frequently associated with an exaggeration of the policy of the considered by extending the considered by the consi

CH LENGRMANT

Jayle F Tubercular Salping tis (La tuberculose de la trompe) Pre mid 0 3 EX 503 By Journal de Chirurg

Tuberculosas of the tubes as more frequent than it a generally believed to be It as often morerculy diagnosed because its masked by simultaneous milection with ordinary baselin geneous strepto occu colon bacili, tetragens etc Jayle divides tubercular salpingnius into two great classes (1) Pure tubercular salpingnius, and (2) tubercul ralpingnius, and (3) tubercul ralpingnius, whome other infection

Pure tubercular salpungits may be divided into four varieties (a) Miliary granular tuberculosis of the pentioneum with saciets, (b) progenic tuber culous (c) lardaccous tuberculosis, and (d) poly morphous tuberculosis progenic and granular or

po ogenic and lardaceous
When tubercolosis is complicated by another
infection the tubercular process may be primary or
secondary. The progenic form is the most predisposed to accondary infection. Tubercular absessess within or near the tubes are very easily in
vaded by ordinary infectious micro-organisms.
The infection may be through the intestines the
genital tract or the blood. Where it takes place
from the intestine it is generally colon beauth when

through the genital tract it is gonococcus streptococcus or staphylococcus

The only way of establishing the diagnosis with certainty is by histologic examination. The only form that can be easily diagnosed chuically is the granular form with ascites.

Treatment should shaps be surgical Jayle is obtooroughly convanced of the supernotty of the conservative operation that in girls and young women he shaps sparse the titerus and ovaries, even when the lessons are very extensive and prevers mentitation. The results of his operations have justified him in this course All his patients have not only completely recovered but mensitua took has been maintained. They have not had any took the complete of the provided symptoms and exercised of them have married.

J DUMONT

## EXTERNAL GENITALIA

Wade II A Description of a New Method of Repair for Vaginal Herola with a Report of 140 Cases in Which It Was Used Med Re-913 Inx 937 By S 12 Gyact & Obst

The author has followed up 140 cases upon whom he had performed his operation for repair of the perineum and in none of them has he found a

failure
The technique of the operation is as follows

z After surgical preparat on and after the patient is anæsthetised and catheterized the field of operation is painted with a 50 per cent solution of tincture of todine 2 An incision is made at the lateral mucocu

tancous junction of the posterior aspect of the agmail outlet. The same position is maintained on the opposite side of the vaginal outlet and with I till traction a curved incison is made with the convexity directed toward the anns. The flap of vaginal mucous membrane is then dissected upward and allowed to remain. Lateral dissection is carried out with the fingers until the firm fascial earned out with the fingers until the firm fascial together with a continuous siture of No z chronic gut. The superficial fascia is untiled with the same suture and the knot is buried. The skin is united with Michel's metal clips

The distinguishing features of the operation
t Fascial repair a fascia and not a skin perincum

subsequently
2 The mucous membrane flap protects the
sutured tissues from the irritating discharges from
above

3 The catgut is entirely buried by scaling the

wound with metal clips.

4. The operation is a simple one and may be completed in from six to ten munites.

Figure Case

#### MISCELLANEOUS

Redlich: The Significance of Internal Secretion In the Physiology and Pathology of the Fermale Gential Appentius (One Briching der uneren Sekretion) i der Physiologie und Pathologie der seiblichen Gentialphär). Arb a d gebrich-graft I view Prof. Redlich 5t Petersh 1915 i e. By Zenthalf d. diges Graft a Gebrith a d Grangeb

Recent research shows that the hypotheses of reflex nervous influences in the female genital sphere must be replaced by those of chemical inter relations 1 e reciprocal chemical relations of dif ferent parts of the body. It is certain that men-struction is caused by overlan bormones and not by reflex nervous unitation Based on the literature which is minutely given and on personal observations, the author describes the chemical correlation of the polyglandular organs in the female and at tempts to determine the relation of the non genital ductless glands to the genital ones. The ovary inhibits the thyroid gland the hypophysis and adrenals excite the parathyroids According to Caro the parathyroids the thymus, and the pancreas possess an action substituty to that of the theroid gland and the adrenals moreover the uterus inhibits the thyroid and stimulates the adrenals and the thymus sumulates the hypophysis According to Klose Lampe and Lesegang the thymus stimulates the thyroid The ovary stimulates the sterus and the mammary gland inhibits the overy Redlich illustrates the action of acromegaly on the genital system by pictures a rontgenogram and a

Von Hertzen V Parotitis after Abdom nal Operations Mostly Gynecological (Uber Protits nach operat on Lagraff on der Bauchhöhte unbegondere an dem er übrhen Gentrationsompanen) F: sho lik älick II wil II langfors 913 i S By Zentzibl, id gen Chu u Grenzgeb

case report

The author reports 12 cases of parotitis after operations most of them being gynecological. They accurred among 4000 peritoneal operations and be comes to the conclusion that metastic 1, nor parson with acceding parotitis 12 a very rare occurrence and appears only in connection with vigently 1 no accuss no extreme loss of blood seems.

to have been an etological factor in 2 cases in enterbled general condition in 8 cases there was ansuma and more or less weakened general health Amesthetication was unerwalled except in one case where when the tumor was removed there was intermission in pulse and respiration. Chloroform was given in all cases and other also in 5 cases in cases preparancy was present. The complexition generally occurred on the first to the third day in 2 cases preparancy was present.

by accompanied by an atypical fever.

The duration of the unalteral and fillateral cases which ended in absorption was on an average 7 days. In 2 cases abscesses were formed 2 cases had a fatal termination. If the operation is of long duration or involves great loss of blood warm phy tological salt solution should be given either by the rectum, subcutamentally or intra-conjugative food and drink, should be given as soon as possible as soon as averaged for the provided gland bot writer compresses or as let a soon as averaged to the provided gland bot writer compresses or as let a should be applied. The artifulg with folders or as a should be applied. The artifulg with folders or may be used. If an abscess is formed the pus should be drauged out as soon as possible. Bookersports

Fampanini G: Association of Tuberculous and Tumors of the Fernale Genitalia (Contribution a létude de l'association de la uberculose et des séophames géntaux) A 40 list: G sec. 1913 EXV 217 By Journal de Chumpe

Pampanud examined 150 specimens from operations for fibroids cancers and cysts of the ovaryto find out how often these conditions were associated with inherculous. The examination was positive in 15 cases.

In all these patients there was more or feas evidence of old or recent tobereduon issues of the lungs or pleur. Tuberculosis coerasted 2 times with 5browd of the uterus o times with owness or parovaina cyst and once with cancer f the uterus in all cases it molecul the tubes and in a cases the uterus size. Minute examination of the specinosis bowd the frequency futerion and adaptical proculoses and proved that it is associated with nonplasous more frequently than is generally believed

Instances of the frequency of the association as shown by operation is necessaryly less than the actual number of cases as many patients do not operated themselves I resummation and many others are not operated on. In the cases noted, as the standard of the cases of the case of the

mine whether the genital tuberculosis was primary. The author believes it was primary in 4 cases. In the others the disease seemed to be primary elsewhere, especially in the lungs and solven. When

where especially in the lungs and spleen. When the cyst itself is lavaded this is always secondary. As to the influence exerted on the growth of the tumor and by the tumor on the localization of the

tumor and by the tumor on the localization of the tuberies it is almost certain that tuberculosis provokes a certain degree of growth in these tumors particularly in the ovarian cysis, this bowever is not so probable with the fibroids. On the other hand it is believed that the presence of a tumor prediaposes to grillal tuberculosis a conclusion based on certain observations but at present of directly proving.

Schmidt O The Surgical Treatment of Perito neal and Genital Tuberculosis (Do operature Behandlung der Peritorati und Gentaltuberkulose) Exclar f Gebrith u Gyath 9 3 hxm 404 By Zentralbi f dges Gyath u Gebriths a d Grengeb

The subor believe that general personned tuber culous around pust as general personned tuber culous and an extensi of the gentlad from the personne of the gentlad from the personne Primary soluted ovarian tuberculous is very rare according to his experience. The pulpation of nedules in Douglas pouch is not a diagnostic proof. The subcutaneous suberculous action the ophthalime and won Primeter reactions are uncertain means of diagnosis. Based on 17 cases operated during the last 12 years with 12 dealies he recommend operations for the morphide personnel of the personnel of the personnel of the personnel of the tuberculous in 3 relaparotomies. The method of procedure must be based on the findings A systematic sanitanium treatment is absolutely required in conjunction with the sur

Opitz E. The Relations of Inflammatory Conditions of the Colon to the Fernale Genitalia and to Functional Neuroses (Euges ther Bezabungen von Entitledungen des D ckdarms zu den weblichen Geschlechtstein und zu funktionellen Neurosen) Zische f Geberich is Gynüt 1913 innu 162

362 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Optic observed a case of acute typhitis during pregnancy with symptoms identical with those of acute appendicates. The diagnosis was made only on operation. The labor pain contractions were defaultely influenced though the presence of an extensive peritionist and not involve the uterns. Optic recommends in such cases the operative emptying of the uterns followed immediately by laparotomy for the appendicates. The author believes that such genuine appendicitis.

The author believes that such gentune appendictis cases are undoubtedly more common than is supposed. In most cases a differential diagnosis will be impossible. An important fact however is that in typhinus the leucocyte count will remain much lower and the differe tial count will not show an increase in the polymorphonuclear cells at the expense of the

mononuclear The chronic appendicts so com mon in young women is better known

Inflammations analogous to those occurring in the appendix may take place in any part of the colon especially in the ascending colon in the flexures and in the signed Signoddis is especially in portant to the gynecologist. Many vague symptoms referable to the lower abdomme are due to chrome cohins and not to permettrits and period the contract of t

Graves W. P. Relationship Between Gynecological and Neurological Diseases. B ston M & S J. 1913 clarx 557 By Journal de Chrunge

Various gyacological disorders are discussed by the author and an attempt is made to determine their relation to nervous disorders. Menstruations a first described fully as regards the general physical and mental changes which take place in woman at that time. There seems to be a gradual storing up of energy in the period preceding the menstrual flow which reaches its maximum just before the menstrual period and suffers a marked drop at the time of the period and numediately following it During the period the mental condition of the woman becomes hypersensitive.

Of the menstrual irregularities which are especially apt to produce neuroses dysencorrofice is by far the most important. In the majority of cases this condition has a definite anatomic basis and opera tive procedure is indicated in most of these cases. Many of them, however cannot be trated successfully by the ordinary operative measures and hysterectomy with castration may even be necessary.

Where there is a nervous duesae as the primary condition we often find the symptoms greatly exaggerated during the catamental period. Most comes commented by some are done during the meastrail period. Most of the women suncides the women ministed of mans anylums the particular symptoms are spit to become exaggerated during the mensitual period. As regards the rehef of insantly by gyncological operations where diseased conditions are found in the pelvos there seems to be conditions are found in the pelvos there seems to be a superior of the conditions are as the condition are not as the condition are not only in the condition are as the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition are not only in the condition are not only in the condition and the condition are not only in the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condition are not only in the condition and the condits are not only in the condition and the condition are not only i

The relation between neuroses and the artificially produced menopause is of great importance and the suthor has gone to some length to determine what nervous duturbances if any are commonly produced by removal of both overnes. He arrives at the conclusion that patterns do not suffer from hot the conclusion that patterns do not suffer from hot many than the conclusion of the conclusion of the conclusion and that as a rule the patterns are the surveys than before the operation for pelve disease.

PREGNANCY AND ITS COMPLICATIONS

Outerbridge, G W Decidual Reaction in the Appendix in Intra Uterine Presnancy J Am If Ast 1913 lm, 1702 By Surg Gynec. & Obst. After a brief introduction, the author reports the case of a woman aged 37 who was delivered of a full term living child. During labor she com plained of excessive pain and her abdomen was tender Ten hours after delivery the abdomen was enormously distended and the patient vomited large quantities of stercoraceous material operation the appendix appeared acutely inflamed and there was considerable free pus in the abdominal cavity The patient died the next morning and no necropsy was performed Microscopical examina tion of the appendix showed numerous groups of large, polygonal cells scattered throughout the greatly thickened subpentoneal tissue The situation of these cells stamps them as having ansen from the connective tissue cells of the thickened stroma of the serosa Nowhere did they show a tendency to spread out in a sheet immediately beneath the surface as would surely be the case had

The author concludes the paper with a discussion as to the probable cause or explanation of the presence of decidual tissue in the appendix second case is cited, of a woman aged 22 who was operated on for an scute appendiceal attack during the sixth month of pregnancy The same characteristic cells were found but not quite so numerous as in the other case The patient recovered without

they ansen from the surface of the endothelium

disturbance of the pregnancy

EDWARD L CORNELL

Unterberger F Pregnancy n Both Tubes at Once (Gleichze tige Schwangershaft beder Tuben) Monaischr f Geberich w Gynek 19 3 arxun, 47 By Zentralbl f d ges Gynak u Geburtsh d Grenngeb

Pregnancy in both tubes simultaneously is very sel dom observed in contrast to tubal pregnancies which frequently occur first in one tube and later in the other Extra utenne and Intra-utenne pregnancy occurring at the same time has seldom been noted as also the implanting of two ova in one tube Thus far only 16 cases of simultaneous pregnancy in both tubes have been reported one of them being a case in which there was one fortus, with a placenta in one tube and two fortuses, with one placenta, in the other 'The author says the diagnosis of bilater al tubal pregnancy is certain if chorionic villi that will take a stam readily are found in both tubes It is not possible that one tub could have become pregnant the oyum thed and then the other one have been impregnated because about six months after the termination of a tubal pregnancy the chorionic villi can no longer be demonstrated Moreover superfectation is improbable because generally after the beginning of pregnancy ovola tion ceases

The author describes his own case A thirty year-old woman who had had one child and menstruated regularly afterwards After six weeks cessation of menstruction she had severe pain in the left side of the abdomen and fainting attacks 8 days later a similar attack followed by diffuse pain. On operation a left sided tubal abortion was found which had led to the formation of a retrouterine hematocele the size of a child's head. On the right there was a tubal rupture with a small perituhal hamatocele which was distinctly separated from the one on the left Extirpation of both tubes was done the right overy being left in position The recovery of the patient followed the Operation

Von Schren k. A.: Uterina Myomata and Pres nancy (Uber Uterusmyom und Schwangerschaft)
Petersb med Zischr 19 3 m. 140
By Zentralbl. f d ges Gynak u Geburtsh s d. Grenageb

Pregnancy in a myomatous uterus is of frequent occurrence The influence of a myoma on conception, pregnancy labor, and the puerperium varies with the location of the growth Large subserous tumors very rarely cause a hindrance to conception On the contrary intramural submucous and cervical myomata are much more active in this The diagnosis of myoma and pregnancy may be difficult at times impossible during the early period of pregnancy

An increase in the size of the tumor almost always takes place during pregnancy and is due in part to an ordematous suffitzation and in part to a hyper plana and hypertrophy of the muscle fibers change in form characterized by a flattening thereof is typical Necrosis as a result of axial rotation of the myomatous gravid uterus or compression of the blood vessels or syphilitic disease of the vessels is rare during pregnancy

The frequency of necrosis of the myoma during pregnancy grows with the increasing age of the patient t is relatively frequently seen during the puerperium a marked decrease in size of the myoma takes place as a rule, post partum Cervical myomata most frequently cause disturbances during labor The simultaneous occurrence of myomata and pregnancy is not an indication for active interference complications alone require active treatment Enucleation of the tumor or extirpation of the uterus re to be considered during the early months of pregnancy caracrean section myomectomy eventually hysterectomy at the termination TAEGE of presnaucy

Pretnancy Seitheim II Tuberculosis and (Tuberkulose und Schwangerschaft) Tuberculosse

9 3 XII 271 By Zentralbi, I d ses Gynak it Geburtsh a d. Grennerb

In considering the relation between tuberculosis and pregnancy the following facts should be borne in mind Non pregnant women with active tuber culous shou d not be allowed to become pregnant at least not until the tuberculosis has been rendered mactive. In pregnant women with active tuber culosis, abortion should be performed as early as possible and further pregnancy prevented until the tuberculosis has been rendered inactive. Patients with inactive tuberculosis should be very cautious about undertaking childbearing because there is great danger of lighting up a stationary tuberculous focus If a woman become preguant under such circumstances she should be treated prophylacti cally she should be placed under the most favorable conditions and treated as if the reactivation had already taken place Women with active tuber culoses should not be allowed to nurse their infants at all and those with mactive tuberculosis only in moderation WEBER

II I K Total Extirpation of the Gravid Uterus in Tubercular Patients (Die T t lexitipation des graviden Uterus bei Phthiakerinnen) Kl s threap

By Zentralbi i d. ges Gynāk u Geburtsh s d Grenzgeb The author advocates the total extrapation of the uterus without removal of the ovaries as practiced

by Bumm in pregnant women with tuberculosis The operation can all be performed at one time it insures sterdity and puts a stop to the exhausting menstrual discharge To a oid the evil results of general anesthesia he recommends lumbar or con duction anæsthesia by Ruge a method Though it is opposed by many total extirpation if used only when there are strong indications for it is allowable theoret cally and has already been used in numer Ous cases EBREVSERG

Vi staglia A Tetany Resulting from Experi ental Parathyrold In ufficiency During Pregnancy and Eclampsia (Tetane infolge x permenteller Parath rudinsufficens wherend der Schwangerschaft und Lilimpue) Zestrabli f lig Patho pathol Anat q 3 x1 577 By Zentrabli d get Gynkl. G b ruch s d Grenzgeb

l'assales observed tetany in a nursing female dog after removal of the parathyroids and d anced the theory th t ecl mosta is due to an insufficiency of those glands. This theory is strengthened by some a teresting experiments performed by Massa

The parathyroids of two f male dogs wer ext mated almost completels. B th dogs rema ed well with the exception of a slight albuminuria. A few months later after the animals had become pregnant they were taken ill the body commenced to tremble m a short time the symptom-complex of tetany devel oped It improved somewhat on the administration of parathyroidin but recurred repeatedly The first animal died of tetany during the third labor following the extrapation The microscopic examination of the liver and kidneys showed fatty degeneration

Parathyroid insufficiency therefore first manifests itself during pregnancy and the puerperium by eclamosia The author admits, however that parathyroid insufficiency is not always the only factor or even an essential one in the production of this varied clinical picture

Nacke and Less Rapid Delivery in Eclampsia with a Contribution to the Blood Letting Treatment of the Same (Kritische Bemerkungen zur Schnellentbindung bei der Eklampste mit einem Beitrag zur Aderlasstherapie der Eklampste) Zentrold

f G; dt 19 3 EE 1, 1189 By Zentralbi I d ges Gynak. u. Geburtah. s d. Grenng-b

The authors are in favor of rapid delivery Its success does not depend alone on the loss of blood as in blood letting but the evacuation of the interesthe release of the abdominal organs from pressure and the decrease of intra abdominal pressure also play an important rôle

The mortality in 79 cases noted was four the puerperal eclampuas were attended by no fatalities. The conservative treatment with primary veneses tion was not employed in these cases, but it was used in 24 cases of puerperal eclampus and as an aid

to active therapy A marked difference in the decrease of the albumin content of the urine and increase of diarrests were not observed in the cases tree ed either with or without venesection. Profuse blood-letting does not cause shock in the sense that vene-ection-

eclampsias during the puerpenum show a higher mortality H'23CH

Cilvio I : Placenta Przevia (Placenta Przevia) Arte sid 10 3 2 200 By Zentralbi, i d gen Gynak a G-bartab a d Grenzgob

In Chylo s experience the placentee presented for demonstration frequently show a decreased thick ness and increased surface extension. The danger of placenta previa Les more in the infection due to frequent examinations, surgical intervention and tamponing than in the hemorrhage Infection occurs most frequently in animic women (as a re occurs must require any in account numerical a sult of malaria anti-loriomissis, permenous a se mina). Tamponing is only justifiable as a temporary. means of arrest of hemorrhage until the prepa a tions for an operation are completed or the pate that been transferred to an obstetrical institut He recognizes as methods of treatment rupt re the ammotic sic, metreurysis and podalic era Conservative or Porros cassirean section m be

considered in placenta pravua centralis The mor tality following casarean section is less than that of placenta pravia in the clinic and does not even amount to one-half of that in general practice

Chylo especially recommends a Porro operation in multiparm as it prevents hamorrhage during the puerperlum and in future pregnancies. If the hamorrhage first appears during the period of labor pains then the results are essentially better as generally a marginal placents previa is concerned and the uterine os is already colated or can easily be dilated. In longitudinal positions of the feetus rupture of the bag of waters is indicated in transverse positions version. The fortal mortality is very large in severe cases as the hie of the mother must always be considered first. Many children die as the result of detachment of large portions of the placents and the delay in delivery caused by the conditions present. If a living and viable fortus can be diagnosed Chylo recommends that the pa tient with a placents przevia be sent to a lying-in hospital to avoid endangering the life of the woman by repeated tamponings Nuneser

Boni A.: Treatment of Placenta Prævia (Sulla cura della placenta prævis) Ra : d'oriete e g sec 1913 xx) de

By Zentraihi I d ges Gynäk, u Geburtsb d Grenzgeb In 68 cases, treated since 1805 in the Gynecologi

in 88 cases, treaten since 1055 in the Cynecological Clinic at Pras the material mortality was 5 88 per cent the infantile mortality excluding those who died before the beginning of treatment, 40 per cent

In lateral placents pravia, rupture of the memprines generally suffices to stop the hemorrhage and abo in many cases of partial placents prevas. In case where this sort sufficient rapid delivery should be done. If the os is not distret the best method is Romaire's mount districts the best method is Romaire's mount of the stop of the stop in the stop of the stop of the stop of the inhelitated. The author has often used Bonniure a method and his never seen senious cervical team Cessarean section should be reserved for exceptional cases.

Bondy O: Bacteriological Examinations in Extraportitoseal Carsarean Section (Bakterologache Untersuchungen beum extraportionalea Kauernehmit) Zinels f Geberick w Gradt 913

ixtus 55 By Zentralbl. i d ges Gynäk, u. Geburtah s. d Grenzgeb

The principal indication for the extrapentoneal area the "unclean cases". The author for the past style years has conducted in estigations on extra personneal exactan sections to decide (1) Whether chinically clean cases show an entire absence of micro-organisms (a) What is the course of the total casely and bacteriologically dead posteriologically dead proceedings of the control of the contro

cotton applicators from the laquor takes from the cervacial incason. Cultures were maste on different media. The method and technique are described in detail. He concludes as follows: It is not so important to determine whether battern are present or not as it is to determine the nature and the number of the organisms present. Simply/soccurs allows, presendedpitherin batclil, and also the non-hamolyte streptococcus are neitherly kinnelies. The smear as superior of the same services of the number of battern of the same services constructed the same services of the number of battern in the liquor amounts of in portance.

Cases with suptured membranes which have been examined outside of the clinic and with ten perature above 37 5° - so called infected casesalways have bacteria in the liquor. In these in fected liquor cases the smear always showed numer ous bacteria similar to pus which contains bacteria There was a marked degree of correspondence between clinical and bacteriological cleanliness, although the cimical course of the cases did not absolutely correspond with the bacteriological clean-The bacterological examination of the secretion and especially of the liquor may be of considerable aignificance in determining the indication for extraperitoneal section. If the smear con tains numerous organisms then the extrapentonesi route is to be preferred over the transperitones. If the transperitoneal operation is performed in cases with infected figure, or if the peritoneum is torn in the extraperitoneal operation it is perhaps advisable to drain the peritoneal cavity. In extra peritoneal cases of this kind it is advisable to drain the cellular tussue wound. HAPPER

Von Mihaikovics, E., and Rosenthal E.; Clinical and Bacterological Contributions on the Treatment of Abortion (Kinasche und bakterologache Bering an Abortustherape). Hessitei f Geberisi Cynik 19,3 arreu oc. By Zentraibi I of ges Gynak u. Gebruiks a di Greaugh

By Zentralbi f d ges Gynak u. Geburtik a d Gressgeb

The lochus of 100 cases of actively treated abortion

was carefully examined. Expectant treatment was used only in cases in which abortions were in progress, most of them in the firth and surth months of preparacy. Pathogenic organisses were found in 90 of the cases but seldom in pure culture as times the hemolytic streeplocaccus (curve in pure culture) the hemolytic streeplocaccus (curve in pure culture) culture). Set times the straphylococcus (in times pure culture and at times hemolytic streep pure culture and at times hemolytic.

The course of the cases of his-molytic streptococcurs more favorable than that of the non hismolytic streptococco. The hismolytic power is acquired intrough adaptation. Scho-timuler's straphylococcus puredus was found in only one case. A hatal case of personatis due to B c.d. is stuly described the returnant of abortion must be based on disnated to bacteriological findings. Even finding hemolytic strept toock in the circulation does not indicate a

bad prognosis Observations on 875 cases treated actively and 272 treated expectantly lead them to conclude that a moderate degree of active treatment is best active treatment is indicated therefore especially in cases with fever The results are given in tabular form.

ber A Report of 593 Abortions with Special Consideration of the Treatment of V ber A specrai consuceration or the Treatment of Febrille Abortlons (Bencht bler 593 Abort mut spen lier Berecksicht gung der Therapie des fiber hafte Aborta) Peterlo sund Zieder 19 3 m 63 By Zentrabl f d ges Gynal. Geburtsh s d Grenzgeb

As we do not at present possess a procedure clinically applicable which expresses the intensity of disease changes by the germs present therefore we cannot utilize a treatment which is based on bacteriology Only the local disposition is of im portance in deciding the degree of severity of the injection neither the bacteriological findings nor the curettage being of little consequence best testimony for this method of procedure is Waeber's 503 afebrile and febrile abortions, which were treated according to the general principles of active therapy se immediate digital exploration without considering the bacteriological findings of the cervical secretions The results are excellent and far superior to those of the expectant plan of treatment

Relation of the Hospital to Huntington J L the Hygiene of Pregnancy Base If & S J 19 3 class 763 By Surg Gynec & Obst

Attention is called by the author to the great importance of properly safeguarding the mother and child during the course of pregnancy and to the great value of frequent consultations of the physi cian with the patient An outline is presented of the work done by the pregnancy clinic of the Boston Lying In Hospital and recommendations are given for improvements along the lines of work carried

out by the chaic

Most of the nationts come to the clinic between the fifth and sixth month and are subjected to a complete physical examination at the time of entrance They are then given instructions as to the general care of themselves and also as to the pecual symptoms which they are expected to report to the physician in charge Each patient is asked to return to the clime once every te days and in this way a careful follow up system a formed

The results of this clinic are extremely satisfactory as the death rate is relatively low and many cases receive appropriate treatment early for complica-tions which if allowed to run, might endanger the life of mother I child or of both J H SKILES

# LABOR AND ITS COMPLICATIONS

Schlapoberski J Rectal Examination D ring Delivery (Zur U t rauchung per rectum der Geburt) M ? chr f Geburtsh G 3 Gy ale 93

By Zentralbi f d ges Gynak Geburtsh a d Grenzgeb The author points out the great danger of infection by vaginal examination of women in labor and shows that if skillfully done rectal examination shows the relation of the presenting part to the pel vis and in many cases the degree of opening of the mouth of the uterus so that vaginal examination is rendered unnecessary. He thinks the method of rectal examination should be taught to midwives Since he has been using it he has had very good mor tahty statistics in obstetrical cases

Schwarzwaller New Manipulations in Brow Presentations (Über den Kegelkugelhandgriff)

Z ni dbi f G) dk 9 3 xxxv 189

By Zentralbi i d ges Gynak u Geburtsh d Grenzgeb

In Liepmann's manipulation for correcting brow presentation the hand seizes the child a head like a bowling ball and gives it a spiral twist until the small fontanel appears at the mouth of the uterus The outer hand pushes the forward shoulder to the Other side as the head is turned The author has used this procedure eighteen times always with good results Afterwards the delivery is completed with forceps There is no danger in the procedure as in Scanzoni s method of turning the head with the forceps or in extraction with the brow presentation. One can at the same time stretch the vagina and the rigid mouth of the uterus and push the latter back over the child a head

Mosher G C.: The Problem of the Occipito posterior Position J lord M J 19 3 xx 1 58
By Surg Gynec & Obst

The author reports that in a senes of 20 con secutive pregnancies he had 16 cases of the occupito posterior position. Beyond a doubt the right occupitoposterior position is one of the greatest bêles not es of obstetrics and a subject which cannot be too much discussed nor too well understood

After discussing the subject in detail the author

re ches the following conclusions The landmarks to be kept in the limelight are (1) The making of an accurate diagnosis (2) the preserving of the membranes (3) no treatment in the first stage if the patient is in good condition for over go per cent have spontaneous rotation (4) the great desideratum is to encourage good flexion good pains (5) in the second stage with weak pains hrst chloral a d morphine should be used (Tweedy's plan) (6) manual rotation has resulted in many safe deliveries (7) if the head is not engaged version may be indicated (8) rotation by forceps and reap plication is recommended by \ew York obstetricians (9) in 2 per cent of these cases the head must be delivered posteriorly and deep lacerations are to be expected (10) it is predicted that consarean section will more frequently be selected after the patient has been go en the test of labor and the attempt found unsuccessful I DWASD L COR PLL

Injuries to the Eye by Forceps De-Pincus, F livery (Über Schädigungen des Auges durch Zan-genenthusdung) Al iker p 13 h schr 1913 Al ther p 13 h schr 1913

xxxxx 857 B) Zentralbi i d ges Gynāk u Geburtsh s d Grenzgeb Injuries to the eyes during birth are rare Lesions of the cornes the ms and the chary bodies are sel dom seen during apontaneou labora Retural hemorrhages which are frequently seen next he posterior fundus of the e.g. are rangilly absorbed. They are caused by pressure of the skull compression of the figular veins, and the changes in the crudation occurring with the first imagination. The turns of the orbital cavity observed in apontaneous labors endanger the eye. Severe hemorrhages into the orbital cavity may cause exophibalized and jupries to the eyes may also be indirectly caused by cerebral lesions. The use of forceps considerably increases the dangers to the infants in the especially if they are applied to the still high head in the front-occitical diameter.

The slapping of the blades in particular is accompanied by bad results. Opacitive of the conjunctive which are caused by forceps injunes are either diffuse and smoky and disappear quickly or they are deep and band tike and mostly of a perment nature. The latter opacities are due to lacerations of Descenet's membrane the essagning humoringing about processes of indiammation and degeneration unitatively of the cornea is explained in this manner while severe lacerations of the corneal membrane are occasionally observed.

Paralysis of the facasi nerve which frequently follows forces deliveries may cause lapophthalmos and ulceration of the corners. The pressure of the forcess induces harmorrhage into the inner eye (antenor chamber items vascular or retinal memmos) and occasional existence of the contraction of the contraction of the contraction of the properties of the contraction of the contraction of the retina are very rare complications.

The opt c nerve is endangered by basal skull functures which har not so very nare inforceps de liveres (specula of bone pressure by blood dol). The severest injury to the eye exophitalmos protrusson of the tyeball or its traumatic forable removal are to be traced back to fractured bone Lesions of the structures of the next may be minerally conductor of parallysis of the symaphetics caused by pressure of the forceps blade on the cerval supplies. Illness

## PUERPERIUM AND ITS COMPLICATIONS

Nagel: Th Blood Vessels f the Puerperal Uteru

(Uber de Bl (gelässe des puerperalen Uterus) It Internet Cong Hed Lond 10 3 Aug By Zentralbl. I d ges Gynlk Geburtsh d Grenzgeb

Nagel has above by means of a specimes with unjected vessels that contrary to the helef of many authors the uterne artery sends out branches to the ceruic as well as to the body of the uterne These branches on both surface-month of the ceruic as well as to the body of the uterner These branches on both surface-month of the uterner than the contract of the uterner when the contract of the contract of the contract of the uterns which again are connected unless and send branches into the different much related by the connected when the connec

with each other and form a network consisting of three layers The course of the ovanan vessels as also plainly to be seen in the specimen. The five ovanan arteries rise from the spermatic artery and break up before they enter the ovary into a bundle of loritous vessels.

Harrar J A: The Treatment of Puerperal Streptococcomia with intravenous injections of Magn ium Sulphate As J Obs. NY

19 3 his No. 5

By S rg Oprec & Obs.

Harrar reports the results of the intravenom injection of magnesium sulphine as advocated by Huggmas. The treatment was employed in 14 cases of streptococcus infection with 12 recoverse in 5 cases in which blood cultures were positive, only one died A 2 per cent solution of chemically pure magnesium sulphate is prepared with freshly dis tilled water and is then filtered and sterized in an autoclave. By simple puncture 400 cm of this solution is injected into a vein The injections hould be trepeated every second or hard day according to the course of the infection as reveiled by the hour means hall be carried out.

Harar does not attempt to explain the action of this medication since as he says, magnesim sulphate has been shown not to inhibit the growth of streptococci and not to cause a leucocytous, yet he believes the results obtained in the severe cause which he selected for this treatment are so straking which he will be the selection of the selection of which have been also as the selection of the selection treatment "operating since the method is absolutely harmless as the selection of the selection of the selection of the harmless are selections."

Ricketts R M: Surgery of Puerperal Eclampaia; Suprapuble Constream Section T liesters S g A s St Loun, 9 3 Dec By Surg Ganec. & Obst

The deductions of Ricketts from personal letters to surgeons health offers a dit by U S Cessus Bureau at Washington indicate that 4 deaths occur in the United States annually to every roo,coo perso 5, as the result of pureperal eclaropsa also 40 and 40 coo sinates as the same total based upon co,coo,coo inhabitants. He also shows that frequency and mortally increase in passing from the temperate zone to the equator and that the frequency and mortality near greater in the black races He is great that certain but terms, represents some the washer chamate may be more placed from the washer chamate may be more placed the deciding of the surgest chamate may be more placed the deciding eclaropsis the cause of which has not been fully determined.

Concerning operative measures for celampids, his work hows that supraphic regarders section, since too; when performed immediat by after the first convulsion without complication has reduced the mortality of mothers to less than 10 per cent and infa to to about 35 per cent Personal letters from annous operators are incorporated in his rather extensive paper as seydiones of these factors.

Vogt E.: The Trendelenburg Operation in Puer peral Pulmonary Embolism (Die klinischen und s tomstein Grundlagen der Tread leaburgschen Operation bei der puerperalen Lungenembohe) Lisch f Gebarish s Gyndk 19 3, Ixmn 137 By Zentralb f d gen Gynsk u Geburuh s d Grenrgeb

The Trendelenburg operation has been but rarely reformed never for puerperal pulmonary emboism The author reviews 14 latal cases of puerperal pulmonary embolism which occurred in the Dresden Clinic between 1807 and 1913 with regard to the applicability of the operation. The conditions necessary for its successful performance are exact. diagnosis of the embolism and of its location immediate operation and a good condition of the patient. The diagnosis is easy even if no primary thrombosis can be demonstrated clinically Of the author's 14 cases 3 died suddenly after a normal puerperium Mahler's sign was present in 5 cases in 65 per cent exitus occurred without any premonitory symptoms. The embolism can be extracted only if it is lodged at the root or in the main branch of the pulmonary artery. In multiple embols of the smaller branches removal cannot be considered. In the author's 12 autopsies either the conus or main branch was involved 8 times, in a cases the branches of the second or third order were involved. In Ranges surgical cases of pulmonary embolism the thrombus was more frequently found in the small branches. In Vogt's cases operation was possible o times 64 per cent, within 15 minutes, 10 times 71 per cent within 5 minutes after the attack whereas in Busch 8 22 cases of post-operative embolism it was possible to operate only in 44 per cent of the cases Puerperal pul monary embolism occurs in strong individuals before the thirtieth year in so per cent of the au thor's cases and in 45 per cent between the thirtieth and fortieth year Post-operative embolism how ever occurs in individuals weakened by hamorrhage suppuration or neoplasm and usually between the fiftieth and seventieth year VON MILTYER

## MISCELLANEOUS

Ejöiseth M. The Signs of Maturity in the New Born Child (U tersuch ngen über die Restezeichen des neugeborene kindes) M natschr f Geburith s Gyndt 9 3 xxx 2 6 By Zentralbi f d ges Gynak u Geburtah s d Grenzgeb

The work is not adapted to a short abstract. The author personally examined 1072 new born babies in regard to numerous factors and comes to the conclusion that no single developmental sign alone nor even in combination with other signs is charac teristic enough so that the duration of pregnancy can be definitely determined from it Welch J E: Human Serum Treatment for

Hemorrhagic D seases of the New Born N Y St J Hed 9 3 mm, 588 By Surg Gynec & Obst.

The author reports a typical case of a new born baby in good condition in every way weighing o pounds at birth. On the third day bleeding from the vaging was noticed in a few hours the gums began to bleed and in 24 hours bright red blood was being passed in the stools. The bleeding con tinued for three days when hamorrhagic spots gradually increased until on the fifth day it reached rot The baby's weight rapidly declined and the voice grew weak Normal human serum injections were begun at midnight on the fifth day one ounce being given hypodermatically twice a day for four days The bleeding began to diminish within a few hours after the first injection and at the end of 48 hours had ceased entirely and the child soon regained its normal functions In some cases the primary bleeding may begin around the cord

Welch believes that the hamorrhage in the new born is due to an altered state of the circulating blood which causes an injury to the endothelial hning of the blood vessels, thus allowing an escape of the red blood corpuscles into the surrounding tissues - there may or may not be a retarded coag ulation time. This substance which circulates in the blood is a toxic and may result from bacterisma syphilis or poisons derived from the gastro intes-tinal tract especially the colon because in some instances the faces have the foul odors of decom position Emaciated children develop toxins from metabolical products of suboxidation. If the toxin has impaired the capacity of the general body tissues to form thromboplastin enough to neutralize the antithrombin then the coagulation time is in creased

The hamorrhages are not controlled by a coagu lation process The human serum performs its function by virtue of its food value restoring the endothelium quickly to its normal condition.

Welch gives an ounce in each injection subcu taneously twice daily in moderate bleeders and three times daily in severe cases using gentle massage during the injection. Intravenous injections are severely condemned and serum must be used within 48 hours in order to avoid precipitation.

The patients are usually in a condition of shock with low blood pressure. There is cloudy swelling and some fatty degeneration of the tissues especially of the liver and kidneys the complement content of the blood is also lowered

The use of foreign sera, such as horse serum is condemned because its administration has been shown to cause focal necrosis of the liver hysline blood platelet thrombosis in the capillaries of the lungs, anaphylaxes and if more than a certain quantity is used the coagulability of the blood is creased and active hemorrhage may result

When whole blood is introduced, the cellular elements have to be slowly absorbed which con

sumes much energy

The direct transfusion of blood is impracticable because in 50 per cent of cases it is physically impossible and in 25 per cent hamolysis or thrombosis occurs This leaves but 25 per cent of the cases benefited by the treatment.

In closing Weich describes how the serum is collected and prepared EVOUNE CARY

Kehrer E.: Tetany of the New-Born (Uber Tetanie Neugeborener) J krê f Kinderê 19 3 xxv 629 By Zentralbi f d ges Gynäk u Geburtsh e d Grenzgeb

This is a report of six cases of tetrary in the new born The diagnosa was posture, as all the typical signs were present. Clouic convulsions were prevalent in three cases to one contractions persisting for a long time were present in the others. The contractives of the upper extremities were always more pronounced than those of the lower. It was difficult to overtome the spanns of the legs, which were convulsively fixed. Chottek's facial phenomenon value of the contraction of the contraction of the normal production of the contraction of the normal production of the contraction of the cases contrary to the natule ordinon.

Of interest is the combination of tetany with ne phints in the one case with selectednam in two others and with severe acterus in another case. These combinations must be considered as a sign of severe damage to the organism. The unuultaneous occur rence of tetany in the newborn and a markedly tetanic condition in the mother is notworthy. The function is very successful. An improvement of the condition of the c

Jörgensen G Investigations on the Salt Fever of Nurslings (Untersuchungen über Kochsalzfeber ben Saugingen) Ugestr f Leger 1913 izw 12 9 By Zentralbi Lu ges Gynak u Geburtsh s d Grenzeb

Wechselmann s researches on the poisonous nature of old distilled water and the filest plays in the use of salvarsan induced Jorgensen to investigate whether similar conditions obtained in the relative which appears in nurshings after physiologic salf solution is unjected subcutaneously as Schamp Finkelstein and several obtained by the solution which are solved in the salf solution which had stood expended for some time. The results in all cases showed that old solutions produced conditions similar to those described by the above mentioned authors but nothings milar cocurred in a fresh solution was used. Similar results prevailed if a 5 per cent solution and places was used mixed of the solution which is solved that the solution when the solution was not mixed to the solution of the solution of physiologic salt solution is exchasively obtained in the solution of exchanged to accern the research of the solution of

S A GARMELTOFF

Henschen, K.: The Duagnostic and Therapeutic Aspiration of the Fontanel in Subdural Hæmatoma in the New Born (Die dagnositeke und therapeutische Fontanellaspiration des subd nikes Gebortahamatoms der Neugeborenen) Zentralli f Gynik o it uxvi ust

Cynak 913 vxxvii 925 By Zentralbi, f d ges Gynal u Geburtah s d Grenzgeb

The author suggests that skulls of misnts dying of cerebral hamatomata be frozen before autopy a performed to prevent the blood from changing in locations to that the exact location of the hamatomat may be sucretained. He classifies these hamatomary be assertained. He classifies these hamatomary be applied to the convention of the classifies of the content of the base or infrastentorial. In the first motion of the base or infrastentorial. In the first motion of the base or infrastentorial. In the first motion of the first motion, and the classifies of the pupil in unlateral difference in the classifies of the first motion and the classifies of the first motion of the hamatoma increased refused intracerual pressure due to the gradual formation of the hematoma.

In the second group these symptoms are indefinite -soft pulsating fontanel somnolence cyanosis rigidity of the neck absence of the cerebral cry urregular respirations. In these portions of the brain complete myelinization does not occur as early as in the motor cortical areas The author recom mends exploratory puncture of the subdural space from the outer a gle of the large fontanel for dug nostic as well as therapeutic purposes in cases of frontal, parietal, or occipital hematomata and cervical puncture in basal hamorrhages Usually both may be combined in order to draw off the fluid which is increased by the exudate If the blood has coagulated the skull should be opened as advised by Cushing and Seitz the clots removed and the vessels ligated Of 16 patients thus operated upon 7 were cured The author reports one such case He concludes that ( ) a subdural hematoms which has been removed by operation and closed without drainage will recur if the tamponing effect of the clot is removed (a) the hamatoma may not be found at the puncture, and if not it is advisable to open the skull on both sides in cases of bilateral convul sions The technique of the puncture requires a cannuls of large caliber This is introduced ob hq ly through the outer angle of the large fonta nel, the point being upward, the lumen down ward

In case where an occupital hieranomia as suspected the cannul is introduced through the outer edge of the small for the underpressible the comparison of the small for the underpressible through the outer of the small are over lapped at the coronal and I mboindal sur resymptems on Where cransciourly is performed the paraelat bone are cut at the snaple of the fontants are the smaller of the contant of the coronal state of the strangle is broken and the bone are reflected outward with its soft parts. After the dura here peed and the necessary steps taken, the bon is turned back and the scapp only sutured not the dura. More

\ogt E.: Duodeno-Jejunal Hernia in the Infant (Hernia duodeno-Jejunalis beim Singling) Monaische f Gebu / h a Gyndh 1913 EXVIS 817
B) Zentrabl f dges Gynkk u Geburish s d Grenzgeb

The clinical picture was as follows A healthy new born miant was put to the breast for the first time to hours after birth Immediately after nursing the infant comited the entire quantity of Profuse evacuation of meconium followed Vomiting recurred with each nursing and after the milk was vomited pure bile followed region of the stomach was somewhat distended, and a tumor the size of an apple seemed palpable to the left of the spine The child gradually became worse and died on the fourth day Upon opening the abdominal cavity a thin walled peritoneal sac the size of a fist was found directly below the stomach and transverse colon to the left of the spine Loops of small bowel shone through the sac. The hernial ring formed by the edges of the duodeno-jejunalis fossa was sharp and contained a blood vessel There was no definite strangulation of the loops at the entrance and exit of the sac and none of the loops were adherent to each other The omentum was well developed The case was therefore a duodeno-resunal herma. This is the first case on record in which such a herma was con genital and caused disturbances immediately after

Boerma, N J A F Th Manner of Embedding the Human Embryo (B trag ur ke ato der El bettung des menschi he Ess) M tek f Go th G kk to 3 Exrv 73 By Zentralb I v dk to 3 Exrv 73 By Zentralb I v des Constants & G Grenzgeh

By Zentrahli f d ges Gyrall. a Geburüh s d Grenageh Roerma had the good fortune to obtain an un 1 jurcid well preserved human egg 6 x 3 x z z z/m un un zu wich he considers one of the smallest embry on in existence. On his preparation he could prove that the intervallous space in not always filled with blood which confirms the vene expressed by Spec in 1506 Fortunately by accident the direct bon of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of the cut surface was parallel to the long axis of th

Meyer R. The R I tion of the Orum and the Fertillized Orum to the Follicle Apparatus and Thy-to the Gorpus Luteum to Venetrua tion (10be due lk. h g der Eurelle und des berituchtete Erss m Follik i parat sowie des Corpus I team ur Menatru toon) | h f Gyndf ols., By Zenttalb i d gus Cyask G burtsh d Grenageb

ByZentabl f d ges (yank' G bartah' d Grenggeb The fate of the follied depends upon the fate of the own A a result of m turaton the primodual follied is converted to the gra han follied and the thesa cells are grouped around the opithelium of the membrane fra uloss. An aborts e matura of the membrane fra uloss. An aborts e matura children. The m bily maturation and fertilus ton of the round producers in an bilgion of matura tion of the other ova and atreas of the folicie. If many oya are in the state of maturation the secre tion of the membrana granulosa produces a cystic degeneration of the ovary With the expulsion of the matured ovum the lutein cell border is formed from the epithelium of the membrana granulosa The proliferation vascularization maturation and retrogression of the corpus luteum go hand in hand with the cyclic changes in the uterine mucosa the maturation and beginning retrogression occur ring at the time of menstruation. The fatty degener ation of the lutein cells in the corpus luteum of pregnancy occurs principally at the end of preg The latter also contains a larger amount of colloid and calcium than the menstrual corpus Inteum Morphologically it is characterized early by a connective tissue stroma without hyaline degeneration and by remiorcement of the vascular walls. The onset of menstruction is the latest period for the death of the ovum of the previous ovulation Meyer observed abortive corpora lutea showing retrogression before complete de velopment had occurred and considers them due to premature death of the ova In addition he ob served partial accessory lutein border formation in parts of the walls of cyclic atresic follicles in a state of development nearly as far advanced as that of the normally developed corpus luteum This partial accessory lutein border formation was present in pregnancy as well as without it it is possibly due to a distant action of the oyum of the normal corpus luteum It is probable that a single I ving ovum may produce double corpus luteum formation (two corpora lutes in pregnancy) A further anomaly of the epithelial lutein cells is their partial persistence in atresic follicles during preg nancy which like the hyperplasia of the the cacella may be attributed to the influence of the lutern accumulation of the fertilized ovum which is still more exaggerated in hydatid moles and in chono epithelioma. In the latter case the cause must therefore be sought not in the ovum but in the pathologically changed chorio en thelium N EISH ACPT

Warthin A S Milliary Tuberculosis of the Pla cents with Incipient Pulmonary Tuber culosi of th Mother Becoming Latent after Bi th of Child J Am 11 A 1 19 3 km, 1951 By Surg Gynec & Obst

The author remads us that it is generally recognized that the undicated of pregnancy on maternal tuberculous lights up pre-existing tubercular issues in the mother. Authorities have minimized the danger of congenital transmission even in the presence of the recognized placental tuberculous. During the course of a routine gross and more sopical examination of the placental, where miliary tuberculouss was demonstrated there were no miliary thrombis but a few grant cells were found and in every section a small number of tubercle bacility were also found:

The author gives details of the following case A woman aged twenty a domestic came under his observation for hysteric insanity. She gave a history of scarlet fever and measles and acknowl edged a definite gonorrhozal infection. With the exception of a diagnosis of pregnancy the physical examination was negative. The family history showed no tubercular injections and as far as the patient knew she had never been exposed to the disease After childbirth an examination of the chest showed a slight increase in vocal fremitus in the right posterior apex there was a slight impairment on percussion the expiration was harsh the pulse 108 The diagnosis showed there was a suspicion of a healed tubercular process in the right apex Tubercul a tests Von Parquet 25 per cent of hours there was a slight reaction. A subcutaneous tuberculin test of 2 mg was given at 10 A M. the following day At 2 P M there were redness and tenderness at the site of the injection. The highest temperature reached was 99 26 One month after she was given 5 mg Her temperature reached 90 y the following day at noon at evening the tempera-ture was normal The ray showed no definite tubercular condition but there was an increase in

root shadows The author concludes that the placental miliary tuberculosis was of low virulence Probably in the third or fourth month of pregnancy a latent tuber culosis existed in the right apex and the bacilli were carried through the blood stream and deposited in the placenta. The patient showed no other tubercular sign on leaving the hospital The low varulence of the placental infection may be explained by the relative immunity on the part of the placental tissues or as the mother failed to develop a miliary tuberculosis the bacilli may have been of a feebly virulent strain (bovine) or the number of bacille in the maternal blood stream may have been small and lodged only in the placenta

ROBERT T GILLMORE.

Foulkrod G: A Consideration of the Reaction of the Human Organism to the Cl sa of Foreign Prot Ids, Represented by the Syncytial Cell Surg Gynec & Obst 1913 Evn 598
By Surg Gynec & Obst

The author tells of a series of experiments made in attempting to develop a simpler test for preg

nancy than the biological test.

The first series consisted of drop cultures of placental tissue in serum from the cord from the same placents, in the same medium treated with pregnant blood and with non pregnant blood and glandular extracts

The method is complicated and therefore open to many errors When the cultures were successful there could be proven some digestion of the placental cells treated with pregnant blood

In the second series with antigens made from a full term placenta, attempts were made to develop a complement fixation reaction with pregnant

blood This was unsuccessful possibly because it has as 3 et been found impossible to dissolve out the antigen

Heynemann T The Diagnostic Value of X
Rays in Obstetrics (Die d ugostische Verwertung
der Röntgenstrahlen in d Geburtshife) Zische / Geb rink is Gynük 19 3 km 9 By Zentralbl f d ges Gynük is Geburtah s d Grensgeb

The diagnostic value of the X rays in obstetuce is limited to the study of the maternal pelvis and its characteristics and to the demonstration of the child during pregnancy X ray demonstration of the conjugata vera is not practicable but those dameters which are difficult to measure directly may be ascertained in this manner Distance pictures of the pelvic inlet possible only in the non pregnant state are extremely valuable oscopic pictures are next in value Recently the Kray demonstration of the child has been quite successful Beginning with the seventh month it is possible to obtain in almost every case a pacture of the feetal skeleto but before this time it is exceptional to secure a picture. The same is true of extra uterine pregnancy The exposure does no harm so long as it is not unnecessarily pro longed The \ray demonstration of pregnancy will not and should not take the place of other methods of examination but should only be used as a supplement to them

Williamson II The Value of Abderhalden Test for Pregnancy J Obst & Gynec. Best Emp 011 XXIV 211 By Surg Cynec & Obst.

The test was applied to so patients, so of whom were either in the last months of pregnancy or had recently been delivered. Of these so the results were positive whereas in the other 30, non pregnant cases the reaction was negative. In 16 cases the test was applied for di gnostic purposes proving correct in 12 cases, wrong in 2 and doubtful in 2 The author has formulated the following conclusions

z It is established that the serum of pregnant women contains a ferment specific to placental albumin 2 This ferment can be demonstrated from the

eighth week of pregnancy until ten days after 3 It's presence may be demonstrated by the po

lanmeter or dialysis 4 The former method is the more reliable in that the sources of error are fewer

5 The accuracy of the test depends upon the most scrupulous care in details and only in the hands of

experts can the results be relied upo 6 The ferment is found only whe choronic tissue is present in the body

7 It is probabl that under the conditions the color reactions and optical effects produced by the test may be si rulated 8 Most f the common sources of erro have

Hozy

already been detected and in the near future the test may be expected to give more reliable results CARRY CLIBERTSON

Sunde A: Abderhalden a Serological Diagnos a of Pregnancy (Die Abderhaldensche serologische Reaktion der Schwingersh it) Norsk M g f Lage esd nst Christiana 19 3 lxx v 234 By Zentralbi f d ges Gynal u G burtsh d Grenzveb

A detailed description of the theoretic principles and technique of the procedure is given with a report of 83 cases examined by the method of dialysis In 75 cases the clinical results confirmed the diagnosis Eight times it was positive when presnancy d d not exist - twice in men and six times in women who certainly were not pregnant The author however thinks the method is absolutely rehable and attributes these failures to a lack of care in washing out the placenta. It is absolutely necessary to follow Abderhalden a directions very carefully He did not try the optic method

Stoeckel Abderhalden s Presnancy Reaction (Uber d Abderhalde sche Sch gerschaftsreak toon) If hen sted Web sche 10 3 k 74 By Zentralbl f d ges Gynäk u Geburish s d Grenzgeb

The diagnosis of pregnancy during its early months is at times very difficult especially when the pregnancy is extra uterine and yet it is here that a diagnosis is of extreme importance. The Abderbalden reaction offers some hope of making a positive early diagnosis. The author gives a short description of the reaction and the principles upon which it is based The polariscopic method is only adapted for clinics at the present time. The dialyzation method has been tried in many cases and by many men but Abderhalden's results have not been completely corroborated. The author reports 130 cases in which the dialyzation method was tried and the results of which were published by Behne According to the Stockel is of the opinion that Abderhalden's reaction at the present time is not of much significance for general practice nor for the forensic side of obstetrics. On the other hand he s convinced that by both of the methods new insight will be gained into the realm of the biologic relations existing between mother and child relations hitherto but poorly understood

Jonas, W Contribution to the Clinical Value of the Abderhalden Serum Reaction of Pres nnicy the Dialysis Method (Botrage sur li pischen Verneribarkent der Abderhalde schen Schwangerschafterektun D ly: efhr) Deut ch med Bi kr 9 3 xxxx 000 By Zentralbi i d ges Gnah. Ceb rish d Grensgeb

The author performed the serum reaction of Abderhalden in 50 cases of pregnancy and gynecologic diseases and found the reaction incorrect in two instances If in place of the serum blood plasma was employed the reaction was negative even when pregnancy existed When carcinoma serum and carcinoma tissue were employed the latter was split up in five out of seven cases BOXER

Schafer P Abderhalden a Ferment Reaction in the Serum of Pregnant Women (Abderhaldensch Termentnachweis im Serum von Schwangeren) B i M Wchus hr 1913 l 1605 By Zentralbi f d ges Gynäk u Geburtsb s d Grenzgeb

A report of results obtained at the Royal Uni versity Gynecological Clinic (Kgl Universitäts-Frauenkhnil) with Abderhalden's reaction for pregnancy shows that 186 cases were examined by the method of dialysis and 10% of them at the same time by the optic method. The latter method is more easily carried out and is less subject to error Of 72 pregnant women examined from the first to the tenth month only two reacted negatively one with hyperemesis and one with pregnancy in a bicornuate uterus The diagnosis of pregnancy was made in one woman's case eight days after the cessation of the menses There were numerous mistaken positive diagnoses in cases of myoma and car cinoma of the cervix with the optic method only one error was made in a case of myoma whole the Abderhalden method is a valuable addi tion to our means of diagnosis

Linzenmeler G The Calcium Content of the Blood During P egnancy (Der Kalkgehalt d Bl tes in der Schwangerschaft) Zeniralbi f G. ab

g 3 xxx u 9 8
By Zentralbl f d ges Gyndk u G burtsh s d Grenzgeh

The author confirms Kehrer's observation that the quantity of lime in the blood of the pregnant woman is not decreased but increased. However in contrast to Kehrer he did not find a decrease of the quantity of calcium in the blood of eclamptics His belief that the amount of lime which the fortus needs for the construction of the skeleton is brought from the mother by way of the blood stream is con firmed by the findings in virgin and egg laying geese The latter always have more lime in the blood He adds a small percentage table of the lime contained in most of the ordinary foodstuffs and emphasizes the value of a correctly balanced food. He adds lime in excess as a prophylactic against caries of the teeth which so frequently occurs during pregnancy

Hinselmann II So Called Physiological Preg nancy Thrombosis of Vessels at th Placental noncy i from these of vessels at in rintennia, Sit (Die angebitch physi logische Schwanger schaftsthrombose von Gel sien der utennen Piscentaristelle Zinck f Geburtik Gyndk 19 kmu 1870 By Zentralbi f d ges Gyndk G burt h d Grenzgeb

Thrombosis of blood vessels at the place of placental insertion in the uterus were not found in numerous examinations of gravid and two recent puerperal uters Many formations formerly thought

to be thrombs are only necrotic maternal tissue produced by the interstitial implantation of the ovum Secrobiotic maternal cells and cell débris are transported by the blood and lymph stream This fact is of importance for the physiology and pathology of pregnancy

Lösqvist R. The Importance of Pituitrin in Obstetrics (D. Bedeutung des Pat truss in der Geburtshile) bersamml d. hord ch. ber t

kopenh 19 3 By Zentralbi f d ges Gynak u. Geburtsh a d Grenzerb

From the extensive literature on pituiting Lof gyist concludes that intuitin induces labor name however many existing facts contradict this con clusion The most important is that the action of nituiting is very weak in the beginning of labor but develops to its greatest strength toward the termi nation when abdominal pressure plays the most important rôle under normal conditions. The published cases are mostly of such a nature as to with stand critical investigation

The author attempted to study the action of pituitrin in women at full term as well as during labor and arrived at the conclusion that pituiting excites uterine contractions which are however not identical with physiological pains. In cases in which the action is marked a tendency to tetanic contrac tions of the uterus can be observed. They may be of five ten or fifteen minutes duration and the uterine muscle may not completely relax in the

intervals

If pituitrin becomes active during a physiological labor nam then labor also progresses during the first period. The contractions secured by pituitrin alone cannot dilate the cervix without other assistance The tetanic contractions, however may in a surprising manner hasten labor after the cer vical canal is open especially in multiparte with well dilated soft parts The pathological character of the natulting contractions may best be demonstrated by the measurement of the intra uterine pressure as has been proved by other investigators.

Hofstätter R.: Fallures and Injuries Resulting iousuatter K.1 railures and enjuries Resulting from the Administration of Hypophyseal Extract (Über M serf ige und Schädigungen durch dur Hypophysea Medik tron) Hoseitek f Ge-brik u Gy &t 19 3 Extrus 14 By Ze tralb I d ges Gynak u Geburtuh d Gremugeb

The author reports the failures and faiuries due to hypophysis medicatio Pituitrin may be em ployed in acute ruses (during and after labor) and in chronic cases (ato y of the bladder gynecologic hamorrhages, amenorrhora hypoplasias castration and osteomalacia) to disturbances due to the administration of hypophyscal extract were observed Bad results are possible on account of lack of a physiologic standard lack of uniformity in the preparation and incorrect dosage and time of ad ministration. The action of the extract during the first stage of labor is uncertain but on the whole not dangerous Increased uterme contractions. which may lead to tetany are indicated only if next of the child is fixed in the lower uterine segment

We must be warned against employing pituiting as a means of hastening labor for convenience' eak-In incomplete abortions pituitrin is not indicated Hofstätter denies the view of Patek that it pos sesses a specific action on the cervix. The induc tion of labor or premature labor by means of patus trin is only occasionally successful. There is no danger of increased hamorrhage after delivery due to its use on the contrary a tonic effect may be observed even after delivery Increased intrauterine a physia of the child is occasionally observed but only rarely In all cases of complete or nartial failure of compensation and in marked artenosclerosis or nervousness pituitrin like all substances which increase blood pressure must be employed with caution Breveweren

Vayer A. Dangers Incident to th Use of the Momburg Tube (Doer Gelahren des Momburgschen Schla ches) Gynäk R adraba 9 3 399 By Zentralbi L d. ges Gynäk u Geburnb s d Grenngeb

The application of the Momburg tube may cause injury (1) The thin walled vens cave may be compressed much sooner and more completely than the rigid aorta especially in scierosis. As a result thereof, the patient may bleed to death into the vessels of the lower half of the body. This has been proven at autopsy (2) It is difficult to include the ovarian artery and compress it. The aorta would have to be compressed above the renal to include it This would shut off the renal vessels and (3) cause injury to the kidneys, especially in nephroptosis Experiments conducted on rabbits have shown that exclusion of the renal vessels from the circulation causes anatomical kidney changes consisting in circulatory disturbances and degenera tive processes Autopsy in a fatal case of placents prævia showed a definite hæmatoma of the kidney Therefore a descended Lidney would have to be replaced before applying the tube Compression of the ureter also injures the Lidney function a complete anuna developing Healthy kidneys may recover after temporary compression of the ureter but diseases of the kidneys will be aggravated (4) Cardiac injury may result following the severe interference with the circulation incident to the sudden exclusion of the circulation of the lower half of the body This was observed a experiments on rabbits and on the human being (5) The intestines may also be injured. In one case an extreme meteorism developed The tube should not he used unless there re absolute indications for it

Mklas, P PI cental Hormones and th Use of Placental E tract a Lactagogues (Zur Frage der Placentarhormone und der Verwendung von Pla-ce tariubstancen als Lactagoga) Monetich f Ge-barith Gruff, etc. Exxviu 60 By Zentralbl. f d ges Gyndik Geburtsh d Gerengeb

The secretso of the breasts is not caused by mechanical d ervous stimuli but only by chem

OBSTETRICS 297

scal attaulation. The nutrities theory also must be repeted because the nutrities substances produced damag pregnancy can maintain a secretion only for a faminet tune. The theory of the action of hormones in more probable. These hormones may be derived from (2) the ovary (2) the own (feitus and pla centa) or (3) the nammary glands themselves the author demonstrated by his unvestigation that the ovum must be considered as the charge source of the hormone. He produced a secretion of mill, lasting only a short time following hyperplass of the maintain y glands in viging as well as maintain assumab by the intravenous injection of a placental extract.

A flooding of the maternal blood with hormones probably occurs physiologically as a result of labor pums, which after a certain incubation period is followed by increased activity of the breast Nothing is known of the nature of these hormones but they are apparently albinumous substances formed in the placents. The question as to whether an insufficiently scerturing breast could not be stimulated to increased activity by these substances is anisolationally scerturing breast could not be stimulated to increased activity by these substances is madefinitely asswered. Experiments were made with we make the properties of a substance is a substance in the contract of the contract of

La Torre Is There a Certain Type of Uterine Musculature from an Obstetracal Point of View (G bt es vom geburshilfischen St odpunkt emen bestimmten Types der Uterusmuskulatur)? Trakvnst Cong Med Lond 913 Aug ByZentzüld i digse Gynkt u Gebursh di Grenzeb

Examination of the puerperal uterus does not give a satisfactory answer to the above questions once it shows an abnormally hypertrophed condution of the organ and only microscopic examination of the non-inactioning uterus could stute. Torre made such a microscopic study of the uterus of the chaldren and a microscopic study of the uterus of the chaldren and uncolongular and the same of the chaldren and a microscopic study of the uterus of the chaldren and unusede bundles are intervoene and instruction. It false sestrate—dunded into three separate layers. The instability are its very similar to that of animals (dogs and rabbita). His statements are demonstrated by microphotographs.

Kaster II : Intra Uterine Ampuration of the Fentur with Occlusion of the Uteritya and Rectum (Intra terms Amputation et scheekis at Verschitts on II morber und Mast Ampl. 28s is 7 Gebs 15s G. 6s 9 2 18x 546 By Zentralb i d ges Gyala Ceburth d Granze's

The author describes a foctus which was delivered sportaneously by a healthy primpara at full term and died a few hours after birth. The entire left lower extremity was absent. A bright red irregularly outlined granulating area was found in its place. The left half of the external gentalia the

external opening of the urethra and the anus were absent. The abdomen was enormously distended. A sausage-shaped hard mass crossed the middle of the granulating area parallel to the longitudinal axis of the body it was the occluded and dilated rectum. The granulations extended externally over the muscles of the pelvis and the lower abdomen On post mortem examination the urinary bladder was found very much distended reaching up to the border of the liver which was abnormally high The urethra was I cm long not dilated and terminated in a blind pouch beneath the akin. The rectum and sigmoid were enormously distended with flatus and meconium A supture threatened to take place between the rectum and sigmoid flexure The other abdominal organs were normal, also the internal female genital organs

The probable cause was an ammotic band. The little was formed between the legs in the genital cleft. The time of amputation was between the end of the fifth or auxiliary to the properties and been examined superficients and been examined superficients and been examined superficient amputated leg may have been lost with the blood The defective epidermistation of the granulating surface was due to an adhesion of the wound with the ammotic sac. The adhesions broke during labor which fact was venified microcropically. Heason

Schröder H: The Late Results of Obstetric Procedure (Die Spateriolge geburth if chen Handelas) Monaische f d ger Geburth u G3 ab 19 3 22291 150

By Zentralbi i d., ges Gynik u Geburtah a d Grenzgeb Schroder investigated the material at the Ronner Gynecologic Clinic from 1893 to 1905 in regard to the fate of the children delivered by casarean sec tion or premature labor for contracted pelvis investigations extend to 11/2 years after birth. He showed that of the children delivered by premature labor the maternal mortality was 2 54 per cent and the fortal mortality 43 60 per cent before leaving the clinic Over one-half of the children, or up to 60 5 per cent died within 11/2 years The figures are a little better for carsarean section. The maternal mortality here was 6 57 per cent and the feetal mortality incident to delivery was 2.5 per cent the number of children who ded within 1% years amounted to 4.5 per cent The principal cause of this sed condition of affairs according to the author is poverty of the parents and the lack of breast feeding Remedy for this condition would have to be applied in that direction if success is to be attamed The statistical investigation also showed that the fate of illegitimate children is about the same as that of children born in wedlock. author believes, in view of these had results that in cases of contracted pelvis the life of the mother ought to be considered first Cramotomy should be erformed on the living child rather than subject the mother to a serious obstetrical operation which in many cases, will decrease her working capacity and at best is doubtful in its results WIENCE.

## GENITO-URINARY SURGERY

#### KIDNEY AND URETER

Plicher P M Exactness in Diagnosis and Conservation in Treatment of Renai Calculus. A Surg Phila 1913 iva 616 By Surg Grace & Obst

The author believes that the ureter opening, as a rule shows enough changes to determine shack knine; as affected if a calculus as so small as not to be indicated by repeated. Aray examinations it is probably small enough to pass without surposal interference. The radiograph helps materially in determining the type of operation. If the urine is loaded with calcium ozalate crystals and the V-ray shows a stone below the irre border of the ribs, a string property of the ribs, a trumbar succours is indicated. If the tadiograph shows a transgular stone with the apex pointing marked or downward and there is an excess of phosphates in the urine such a stone is phosphate and operation is sucheated.

The author says that there are more renal calculpassed into the bladder and through the urchurthan ever remain improsored in the Adney Prelated on the control of the control of the histories in indicated when the stone as within the private of the kidney or the first portion of the urietre or in the lower calcier of the kidney provided the pelvis is distred "Perhartomy is indicated if the kidney is sorth saving and suppristive polneyhritis is not present. Dranger distrikt does not follow operation provided the urietre is undustrated.

lej ra and Rubens-Direkt Congenital Non Pathological Froispeed Kidney (Contributor 4

létude des reins ectopiques congénitaux non pathologiques) Res d'chir 913 abis 544 lly Zentralbl f d ges Gynik u Geburish d'Grenzgeb

The authors have had two cases of congen tal ectopic kidney and m connection with the description of them call attention to the errors of disgnosis to which they may give rise and to the hostological lessons and signs of degeneration found in them.

A woman of 32 was zent to the hospital for pain in the right aide of the abdones and womating These cross recurred twice in three months and a diagnosis was made of appendictus and then of cyst of the ovary or of fibroms with a twistel pedicle On operation a prolapsed Lidney as large as a fast was found and removed followed by recovery

I women of 39 had suffered for a year with attacks of pans in the left aide of the abdomen accompanied several times by intestinal occlusion. Operation was performed with a probable diagnosis of tumor of the colon. An ectopic ladney was found and removed and the patient recovered.

The first kidney was overed in form and had small

yellow spots scattered over it thesa yellow spots corresponded to masses of clear cells located in the interstated connective tissue of the hidney at places where it had become selectrice. There were band of selectors relating from the medulary substance to the capsule. Glosnerin and unnary tribules both shared in this process of fibrous transformation. The clear cells, scattered through this thickened connective tissue were round or polyhedral in form made up of a finely vaculate or arrow protosphare. The or of the process of the control o

However their location exclusively in the zones of sclerous and their substitution for the cells of the read tubules would lead one to consider them modified knowledge cells they are not cells undergoing modified their cells when the cells were becoming adapted to a new function interfered with in their function of external secretion, they were functioning as cells with an internal secretion. Carrying this hypothesis of the cells were been made and the cells with an internal secretion, they were functioning as cells with an internal secretion, they were functioning as cells with an internal secretion, they were functioning as cells with an internal secretion, they were functioning as cells with an internal secretion of the cells hypothesis of the cells of the cells and the cells are considered to the cells with the cells of t

In the second kufney, there was a very marked didatation of the entire yettem of unanyr tubical didatation of the entire yettem of unanyr tubical clear untervalual cells which was a yet only sightly advanced. They have collected from the interval a number of cases of errors of diagnous which ectope kidneys have go en rue to tumors of the admentance of the distribution of the distribu

Arphrectomy is the preferable operation. How ever operation often has to be performed at once and nephrectomy without a preceding functional eximan nation of the kidney is dangerou. It would be better to delay nephrectomy until the functional engaged of the other kidney; determined. J. Ozwezer.

Rupert R.R. Irregular Kidney Vessels Found in 50 Cadavers 5 rg Gyncc & Obst 19 3 xvu 580 By Surg Gyncc & Obst

In the original article Rupert makes the state ment. With few acceptions (ext books evide references to anomalies of vascularization of any gland. The left ture is somewhat meager as the author of each article reports cases, in which unexpected an males of the arterie u unity were found incident to renal operations, and statistics are based upon surgical cases where only the blood supply of one kidney is seen Of 50 cadavers, 35 cadavers (70 per cent) showed either a uni or a bilateral anomaly of the artery or the vein on both From a surgical standpoint with two like organs

in the body the author believes that stati ties should be based upon the number of cadavers or nationts in which such anomalies are found and not upon the number of organs because both organs (kidneys) are never removed

The author found 12 cadavers with anomaly on left side

II cadavers with anomaly on right side

to cadavers with anomaly on both sides Only one cadaver had anomalous veins having two on the right both leaving the hilum of the

The author's conclusions are that (1) Anomalous renal vessels are more frequent than generally supposed especially in the arteries and (2) veins are as important as arteries for on account of

the thinness of their walls and absence of pulsation they are difficult to differentiate from an adhesion unless within the field of vision

Krotoszyner Valu of Pyelography for the Diagnos a of Hydronephrosis. C If St J Med By S rg Gyner & Obst 10 3 XI 435

The author shows the value and use of pyelog raphy in three cases of hydronephrosis

In the first case a tentative diagnosis of left sided nephritis was made and from the comparati ely slight deterioration of renal function a nephrectomy seemed to be contra indicated Pyelography made the correct diagnosis and nephrec tomy as treatment was the proper procedure. In the second a diagnosis of left-sided pyonephrosis a sequel to a probably congenital hydronephrosis could have been fairly established by other prologi cal methods yet pyelography indicated the exten sion of the destructive process clearly pointing to the necessity of a nephrectomy and not a prelimi nary nephrotomy In the third case pyelography demonstrated a normal renal pelvis and calices, ex cept a slight dilatation of the lowest one and with these pyelographic findings operative interference was not advised in a short time although two skia grams proved negative a small calculus was passed

Arotoszyner s work was not satisfactory until he began us ng shadow casting solutions of compara tively high conce tration as a 25 per cent solution of cargentos He uses the moderate Trendelenburg position to permit the solution to gra tate into all renal cavities esting and the taking of a radiograph while the injection is continued under gentle pressure \s a rule he uses 8 to 15 ccm although 0 c ounce has been used in some cases

The following are his conclusions ( ) The diag nosis of hydronephrosis is materially aided and in some instances is only feasible by pyelography (2) It offers a valuable guide to the method of treat

ment or operative procedure to be followed in a given case. (3) This method should be applied by a skilled operator and only on the basis of strict indications Louis Gross

Bernstein H S : The Incidence of Renal Involvement in Pulmonary Tuberculosis Albany M By Surg Gyner & Obst. 200 1222 FEOR

In order to prove a tubercle bacıllurıa without apparent tubercular involvement of the kidneys, a series of one hundred patients were selected in which the tubercle bacillus had been isolated in the snutum A morning specimen of urine was obtained and al lowed to stand for two hours the upper layers being then decanted into a beaker while the lower layers were centrifuged. The centrifugalized sediments were examined for tubercle bacilli and then injected into guinea pigs - two pigs for each patient. One guinea pig was killed and examined at the end of four weeks while the second was examined at eight weeks

Of this series ten were positive for tuberculosis the far advanced cases of nulmonary tuberculosis providing the larger number. Six specimens of urme did not show albumin or casts two of which however did show some pus-cells four showed albumin one containing a marked number of pus Three cases were cystoscoped and in each case the ureteral urines were positive for tubercle bacilli in one or both kidneys. The post mortem records of the Bender Hygienic Laboratory show three hundred and twenty-one cases of pulmonary tuberculosis with ten tubercular kidneys or 3 4 per cent

In conclusion therefore 10 per cent of the cases examined gave positive guinea pig results Urinary symptoms were absent subsequent inoculation in five cases gave the same findings six of the urines were negative for albumin three sediments con tained pus Cystoscopy corroborated the findings of tubercle bacilli in three cases in urine directly from the Lidney Post mortem records showed 3.4 per cent of kid ey involvement in pulmonary tubercu C D Presents.

In order to determine the causative organisms in pyelonephritis the author examined 9 cases bactern ologically and isolated 16 different species of bacteria among which bacterium coli communis proteus, staphylococcus aureus and albus, and streptococcus were shown to be pathological by an mal experiments. The one most frequently demonstrated was the colon bacillus, which agrees with the findings of other authors rabbits and gu ea pigs were infected with the bacteria from cases of pyelo ephritis and in 42 of the cases the Lidneys were examined histologically The conclusions are

There is no specific microbe for pyclonephritis It is caused by the ordinary pus producing organisms which find particularly favorable soil for development in the local conditions of the organ affected.

2 There are four modes of infection for the kid ney by direct injury hamatogenous, lymphogenous and infection ascending from the bladder

In 12 experiments the results in 6 justify the conclusion that a single injection of pus producing organisms into the ureter as far as the kidney pelvis does not produce pyclonephnis. In 8 experiments 6 were positive and led to the conclusion that the insertion of pus producing organisms into the ureter and closing it causes pyclonephils of the affected side. In 33 experiments in which pus producing organisms were injected into the bladder in 0 cases there was one injection with continuous closure of the trethrin in 8 cases one experience with the continuous closure of the trethrin in 8 cases one expection with the fore of time part interfered with in 1x cases repeated injections with temporary closure of the trethrie such time.

These experiments showed that the looper the flow of unne was interfered with the easier and more extensive were the changes in the kidney parenchyma. But the three sense of experiments show that there is no seconding pyelonethria in the rus sense of the word. By infammatory processes in the uniter of the word, by infammatory processes in the uniter of the second processes are the consistent of the second processes and the consistent of the second processes are the consistent of the second processes are the consistent of the second processes are the contact of the second processes are the contact of the second processes are the second processes and the second processes are the second processes and the second processes and from the medium that the second processes are the second processes are the second processes are the second processes.

Stasis in the lymphatics may cause a retrograde transference to the lymph-spaces of the kidneys or as is more probable they may be carried through the thoracic duct into the blood stream and enter the kidney through the blood let from the primary inflammatory focus in the bladder or ureter small thrombi may cause direct metastases in the kidney nathout the intervention of the lymphatic system Among the conditions which favor kidney infection the author tested the effect of trauma By means of an apparatus arranged by the author the animals were given uniform blows over the left kidney through the abdominal wall After this the infectious material was applied Fifteen times it was given intravenously both Lidneys were equally affected the trauma apparently making no differ ence 11 times it was gi en through the injured skin here the kidney affection seemed to select the mjured side 26 times it was given subcutaneously and the injured kidney was the seat of the resulting inflammation He tested the influence of ligation of the ureter in two ways in 14 cases the animal was infected intravenously in 10 cases, subcutaneously and the kidney with the ligated ureter proved to be more susceptable to infection.

Kretachmer H L. Pyelitis Follicularis 5 £ Grace 5 Obst 9 3 xvn 6 £ By Surg Grace & Obst. The author tells of a rare form of pychia, the pathological condition of which has also been reported under the name of pychtis granulosa. His report is based on one case and a review of the literature on the subject of which the author is able to collect only seven chirical cases, which with his reported case makes a total of eight cases re ported to date

The patient had been treated for makins for a long time. Cystoscopical examination resided a pus infection in the left hidney and a nephrectomy was carried out. The kidney removed at operation showed two unusually interesting conditions at 50 Max arrested development of the hidney the entire kidney weighing only 15 grams. (a) The hidney pelves showed a granular condition due to the presence of small nodules beneath the merous mem hidney pelves a summarities proved the metal training lymph follucies, as they showed the presence of germanic center.

The article considers the associated conditions found in these eight cases and the pathogenesis also The views of pathologasts are given in detail as well as the views of Pathologasts are given in detail as well as the views of Taddet Solent Zanelkia, Loewenhardt. Pauchkis, and \( \) on Finch In the three cases reported by Von Frisch and in the case of Taddet Solent and Zanelkin, hematuris was a romanent yeapitom. In the author a case the and in the author a case the presence of a colon bacillus infection was demonstrated.

Stevens Partial Bilateral Nephrectumy in a Case of Calculous Pyonephrosis Cal f St J Med 9 3 Et, 447 By Surg Gyner, & Obst

The author details minutely the history of this unique case, to prove to what extent renal tasus may be removed and how little of the parenchyma is required for satisfactory function.

The patient was a barber 19 years old, who had complained for an month of pann in the left hypochondrum, the urine was cloudy there were put cells and blood cells but no subjective unnary symptoms. Cystoscopy warra ted a dagnosis of thronic cystits uneteral catherinaxion showed cloudy urine from both ureters more marked on the right and emrocopically the right urine contained a larger smount of albumin than the left, a fibod cells and harmonicarily the colon bacili functional tests demonstrated decrease especially until the colon bacili functional tests demonstrated decrease especially on the right used redocraphy showed eight typical stose shadows on the right side and az on the left blood cryoscopy o 556.

As the right indice; appeared to be me worse condition it was attacked first and, on exposure both poles were found to be more shells with a small amount of healthy tassue in the center. The discussed portion was removed with the major portion of the enormously dilated polesys. Two major portions are made to the common with the polesys are made to the common with the polesys are the properties of the common with the polesys are the polesys and the polesys are the polesys are the polesys are the polesys and the polesys are the polesys and the polesys are the polesys are the polesys are the polesys and the polesys are the polesys ar

The Lidney pelves pu visible micro-copically were washed with a light silver solution at intervals of 10 to 12 days with good results. The author failed to find any report in the literature of bilateral Lowe Gross resections

Untoward Results of Nephro Leates vner M lithotomy J Ass M A 913 Itt 1020 By S rg Gynec & Ob t

The author of this paper states that the mortality of nephrolithotomy according to collected statistics from the clinical centers of the world is less than a er cent in aseptic and moderately infected stone aidneys. According to Hahn and Cunningham the mortality of 222 cases 135 of which were asepti and 97 infected was 2 2 and 18 3 per cent respective As to hemorrhage after nephrolithotomy the author quotes one case from Israel s chaic of acute hamorrhage setting in with a twenty four hours Much more frequent however is lite hamorrhage which occurs several days or even weeks after the operation, occasionally preceded by moderate or insignificant bleeding into the bladder or the wound

Another complication of less frequency is penre nal infection and septic nephritis. In regard to While closure of natula as a complication he says the post-operative fistula may follow expectant or conservative local treatment secondary nephrec tomy is nevertheless in many instances, the only effective means of reheving the patient from his distressing condition. It should be performed

without too long delay
He commends the practice of pyelotomy and primary nephrectomy in preference to nephrolith The obvious advantages over the latter operation are preservation of the kidney operated on good view of the renal calices and pelvis and com paratively small functional impairment pyelotomy is only applicable in the comparatively small gro p of aseptic and moderately infected cases primary nephrectomy ought to gain more and more ground as a curative method of advanced pyonephrotic stone kidneys, in which the other organ is found to be functionally and anatomically intact At Israel's chair the operative mortality for nephrotomy in infected cases was double as large as that of primary nephrectomy 22 per cent against 11 per cent I S Kott

Caulk J R Uret revesical Cysts an Operative Procedure for Thei Relief J Am M Ass 9 3 lu 1685 By Surg Gynec & Obst

Before the advent of the cystoscope the subject of ureterovesical cysts, cystic dilations of the lower ureter or intravesical ballooning was one that was little known Until 808 Engl sch was able to col lect but sixteen authentic cases and Adrian in 1905 reported fifty two cases collected from the literature of this subject. The o observations were mostly necropsy findings or accidental discoveries during the course of vesical operations. Of the fifty two cases which Adman collected only twelve were dispressed correctly during life. Since the advent of the cystoscope and more thorough training in the interpretation of cystoscopic pictures this condition is becoming more generally recognized. The literature seems to show that these dilations are more frequent in females than in males Englisch in his series reports ten cases in females and six in males Cases have been observed in patients rang ing from six weeks to sixty two years of age. All authors are agreed that the cyst wall 1 composed of two mucous layers that of the bladder and that of the ureter A controversy has arren concerning the intervening structure. The majority of au thorsties have found only fibrous tissue between the two mucous surfaces a few however have noticed muscle tissue Stones have also been reported within the cyst (Freyer)

The operations reported in the literature have been of two kinds, the suprapulse and the endo-

vesical

The suprapulic operations which have been described have been (r) plitting the cyst and suturing lengthwise the two mucous surfaces, as in Adrian s case (2) the resection of cysts with a circular su ture of the two mucous surfaces (3) the hernia operation described by Young and utilized in his case of a ureterovesical cyst within a diverticulum

The endovesical operations have consisted in the splitting of the cyst at its ureteral orifice by means of a knife or scissors Cases of this kind have been reported by Kelly Pawlik Albarran Barringer and others Results in some of these cases have been satisfactory The objection to this procedure has been that recontraction of the ornice has been frequent and rapid Pawlik and Kelly mention this in their report and advise repeated dilatations similar to those utilized in cases of prethral stricture Dilatation was done 112 times in Pawlik's case to prevent contraction

A summary of the features of interest of are cases treated by the author is as follows. The ages ranged from 6 to 46 years kive of the patients were women and one was a man. Five of the cysts were located on the right side one on the left side. One was associated with double ureter and seemed to be the only case which could be definitely classified as of congenital origin the other five cases presented evidences sufficiently clear to allow them to be tabulated as acquired abnormalities Of these five cases one was secondary to a ureterovesical one resulted from inflammatory snastomosi changes around the ureteral orifice secondary to tuberculosis one appeared in the course of a long standing calculous pyonephrous one presented the history of the passage of two stones from the kidney and the last the most recent case was secondary to a healed ulcer around the ornice due to a colon cystitis It seems convincing therefore that not all uretero esical cysts are congenital as some au thors state on the contrary they seem more fre quently to be acquired

The endovesical operations which have been

employed have consisted merely in slitting the orifice of the ureter but all the observers who have utilized this method have reported rapid reforma tion of the stricture at the orifice as occurred in case one with the first operation. Several writers state that this slitting operation is a difficult procedure. The author says however that even the resection of the cyst under the guidance of the cystoscope was executed simply and offered no par ticular obstacles In the male the removal could be done by means of a rongeur cystoscope

The author is of the opinion that the endovesical slitting operation offers no permanent benefit. In two of his cases the patients have undergone nephrectomy one for tuberculosis of the Lidney the other for a calculous pronephrosis. The uretero-vesical cyst had entirely disappeared following the nephrectomy for tuberculosis The operation which was employed in cases one and two the total resec tion of the cast under the guidance of the cystoscope is a method which seems to offer very satisfactory results. One of the patients remained well for a year without evidences of obstruction other patient has remained perfectly well for two lears and has a patent ornice through which a

The suprapulae operations, whether shiting the orifice longitudinally with suture of the two mucous surfaces or the circular amputation of the cyst with suture of the two surfaces, or the hernia operation employed by Young in his case are more extensive and more radical procedures and possibly offer better curative results The author is of the opinion however that the chances of recontraction are about as great with these methods as in the procedure which was employed in his two cases of total resection with depudation of a large area around the wreteral ornice The results in these cases seem to show at least, that the procedure may offer relief for two years or more and the author believes that since the operation is a minor one done without general angethesia, and is simple in technique and der aid of danger it should be the operat on of choice in many cases. He con iders the suprapulic method too rad cal as the unitial operation in most cases H A MOORE particularly in women

Eisendrath D N The Repair of Defects of the Ureter J Am H Ass 913 [ 1, 694. By Surg Gynec. & Obst

The author sums up the various methods that have been previously used for the anastomous of severed ends of the ureter particularly land ug the method of Van Hook by which it is possible to unite a gap of 3 2 inches. The structures which have previously been employed for filling in the portion of the tube that has been destroyed are segments of an artery vem segment of the horn of a dog s uterus (fallopian tube) and segments of bowel or vermiform appendix. The use of these structures in most instances has not given satisfactory results probably owing to the fact that the necrous of the

interposed issue is due to the irritation produced by the urme The author in his experimental work has used a piece of the unnary bladder taken from the fundus of the viscus

His conclusions are based upon twelve expenments He removed one meh of the useter and

interposed the piece of bladder the technique of which he describes in detail

He divides the results obtained into three groups I In several of the dogs the proximal portion of the ureter became adherent to the abdominal in-

cision and a umary fistula was established
2 In six dogs the transplanted segment of the bladder became necrotic because union had occurred

between the ends of the ureter and the transplant with subsequent leakage of urine

utenne horn

3 The third group includes those cases in which the grafts survived at least temporarily but when the dogs were examined from four to six weeks after operation it was found that the transplanted bladder segment had contracted and had become converted into a mass of cicatingial tissue

The results, therefore are practically the same as those of other investigators who have employed segments of blood vessels, bowel appendix and

Beck G. The Implantation of the Ureters into the Large Bowel J Am M Am 1913, kn 69 By Surg., Gypte & Obst.

Beck gives as the chief indications for transplantation of the pretera into the bowel (1) Injury of the ureter of such a nature that it can neither be sutured again not implanted into the bladder (2) fistula of the ureter (3) total cystectomy (4) ectopy of the

bladder This operatio has not gained an enthusiastic fol lowing because f many drawbacks chiefly ascend ing infection of the Lidneys and the difficulty of con trol of unnation. The methods of implantation that have been used are manly four

r Taking along a part of the bladder with the ureter for tran plant tion

2 The direct union of the wall of the ureter to the wall of the bowel. This method may be fol lowed by penton to due to pulling out of the su tures

3 Boars a method where a small button on the principle I the Murphy button is used

4 Oblique implantation of the ureter nto the bowel by a procedure in la to the operation de scribed by W tzel for oblique gastrostomy. This to the method the uthor has modified and used in the two cases described. The modification consists essentially a amplant up the ureter so that t dangles with its free portion in the bowel the open ing of the urcter being made wide by shiting it open one-quart r of an i ch He hopes thereby to pre vent infection of the kidney and further that the lumen will not be included in the cicating of the bowel and will remain patulous

The first of the two cases reported was a male

aged 27 with tuberculosis of the bladder and upon whom suprapubic drainage had been done several months previously to relieve hematura and stran guary The right uneter was implanted into the cacum, and the left ureter into the sigmoid The patient improved for some time but d'ed eighteen months after operation with tubercular involvement of the lungs and of both Lidneys The right ureter was found dangling free in the lumen of the bowel The left ureter was much distended its ornice into the bowel being obliterated. The right kidney was partly normal in other parts it showed acute and chronic inflammation. The left kidney was almost entirely transformed into necrotic tissue Microscopically both Lidneys showed amyloid degeneration a had infiltration of the interstitual tissues with quantities of bacteria and cocci The bowel below the place of implantation showed a transformation of the epithehum into pavement epithelium much broken up on the surface

The second patient was a male, aged 60 operation which was done only a few months before he reported was for an intractable suppuration and fistula of the bladder following suprapubic operation for stone low down on the ureter This operation differed from the one formetly described in that the right ureter was implanted into the appendix — an end to-end anastomous Although symptomati cally improved, the author believes that in time this

Am M A

patient too will develop pychtis

Beck concludes that in tuberculous of the blad der a permanent implantation into the bowel is only palliative, but the method described promises a longer period of freedom from pyelitis than does any other In more favorable cases a reimplantation into the bladder may be considered after the viscus has recovered A NELVEY

#### BLADDER URETHRA AND PENIS

Young, H H Th Present Status of the Diag nosis and Treatment of Vesical Tumors. J

9 3 Ext. 857 By Sr\* Gymec & Obst

This st dy of 117 cases f vesical tumors empha sizes the fact that benign papillomas of the bladder are relatively infrequent 17 per cent in this series and that unless the benign cases are cured at opera tion, they almost always become malignant finally. The benign cases can be very satisfactorily treated

with the high frequency current
The malignant cases demand radical resect on and cautengation which indicates the importance of an early and correct diagnosis. This is best made by microscopical examination of a piece of the tumor temo ed by means of Young a cystoscopic rongeur

A tumor may be benign on the surface but make nant at the base so that it is important to get a deep piece for examination. Young groups and sum-marizes the cases according to the operative treat ments employed as follows

: Suprapubic excisions forty seven cases

Fulguration mineteen cases

3 Suprapubic drainage twenty two cases. Suprapubic partial excision with destruction of the base by cautery or fulguration five cases

e No treatment twenty-eight cases

Excision as usually carried out is utterly in adequate and is followed by prompt recurrence in both bemen and mahenant cases The cautery is

an extremely valuable agent in conjunction with suprapubic or interperatoneal operations and when it has been thoroughly applied even in apparently hopeless cases some brilliant cures have been ob tained

Carcinoma of the bladder except in very extensive cases is best treated by suprapubic resection of the bladder leaving a wide area of healthy wall around the tumor the cautery to be used if possible ureter transplanted if necessary and the peritoneum excased when the tumor involves that portion of the bladder Intraperatoneal operations are rarely necessary except in tumors of the vertex and poste nor wall, as an excellent view of the bladder can be obtained by an extensive median incision wide separation of the recti muscles upward displacement of the pentoneum a long incision into the bladder and good retraction The use of to per cent resorcin or alcohol, to kill any tumor particles which may have dropped into the bladder also seems desirable but a better plan is to thoroughly cauter ize the tumor before beginning the resection of the bladder FRANK HINWAY

Ashcraft L. T The Value of the D Arsonyal Current in the Treatment of Benign and Malignant Tumora of the Urinary Bladder Through the Operating Cystoscope Surg Gynee & Obst. 1413, Evu, 636 By Surg. Gynee & Obst.

The author's experience with the Oudin and D Arsonval currents demonstrates the superiority of the D Arsonval current in the treatment of both benign and malignant tumors of the unnary bladder through the operating cystoscope. To compare their relative values he conducted a number of experiments with both currents on raw meat both in air and under water As a result of the tests he adopted the D Arsonval current

The technique is as follows After cystoscopical preparation the patient is insulated from the metal table by means of asbestos and a leather cushion A metal plate five by eight inches, is strapped to the body by linen tapes its position corresponding to the location of the tumor. The cord from the plate leads to the solenoid and returns through the solenoid to the cystoscope The operator sits in front of the patient. The tumor is located with a Aitze cystoscope. A Wappier cystoscope is then introduced and the insulated copper wire is inserted through its tunnel and projected into the center of the growth from a mm to 5 mm. according to its depth Each seance consists of at least six applications of fifteen seconds each with a rest of fifteen

seconds and at least two areas being treated. The find is then withdrawn and any shreds saved for microscopical examination and the bladder washed out with a borne and solution. The trectiment is repeated in from seven to ten days, depending upon the amount of reaction. He advises being on the lookout for daughter tumors which may indicate movel comments of the twerters and kinders.

The author draws the following conclusions

r That the D Arsons al current is superior to the Oudin in the treatment of both benign and malignant tumors

2 That the Oudm current stimulates malignant growths.
3 That in border line cases be demonstrates the

value of the D Arsonval current

4 That the value of the D Arsonval current in
malignant cases remains to be proven

5 That the D Aronval current does more for bladder tumors than surgery

André: Electro-Coaquiation in Tumors of the Bladder (De I électro-coagulation dans les tumeurs le la resse) Tr C q de l Ais fra c d' ol l'ar 1913 Oct By Journal de Ch rusque.

under has used electra-coagulation as a treatment for papulomatous tumor of the bladder in 7 cases. The current was about 200 ms. A Loewenstein a conducting sound was used with a cul ber of 8 Charmère with an ordinary cathetening cystoope the duration of application at 2 each suiting being from 90 seconds to one and one half munitary being from 90 seconds to one and one half munitary with frequent interruptions of the current. The point of contact of the conductor was also frequently changed so as in culturary as many points as possible changed so as in culturary as many points as possible.

In 4 cases the tumor was solitary in the other three there ser two or three Tour cases were recurrences of tumors that had previously been operated or three cases had never been operated on To save of the tumors varied from that of a pes to that of a nut! In the small and much m saved tumors one treatment was sufficient to destroy the tumor in the larger ones several treatments were necessary.

Thu procedure which is harmless it used care fully seems to be very effective and capable of gy og excellent results if avoids numerous ceiting operation a ad moreor a foliast the physician to watch for and destroy recurrences in the very beginning it is not panelly and patients accept it very readily it may be repented exteral times on the same patient, which mother of acting persists out to does not keep over a cuiting persists out in does not keep extendit, and bed—he can go home silter each it. Thousand

Pilcher P N A Consideration of Twenty Four Cases of Tumor of the Bladder and Conclusions as t Appropriate Methods of Treat ment N 1 M J Med 9 3 xm 25 By Surg Cynet & Obst

This paper is based on a series of twenty four cases which his e com unit the personal care of the author and he divides them int three groups (1) Inoperable cases (2) extensive resection of the bladder and (3) cautery operation

Two of these cases are insusually interesting and might be briefly quoted. In case eight the partial had been operated on twice for papillomate of the bladder. After the last operation a large ider remained which occupied the trigone and would not be all The bladder was opened from above and the bupdet high frequency sprik applied. The patents bladder was opened in our mouth after the bladder was opened in our mouth self-side was opened to the patents bladder was opened in our mouth self-side.

bisdoor was perfectly normal nine months later. In case nine the patient had had papaliomia of a compared to the patient had had papaliomia of scopical examination showed these growths to be scopical examination showed these growths to the scopical examination showed these growths to the scopical arcturent growth on the anterior wall of the blader as the scar of the superpolar wound. Thus was treated with a bupolar spark under general sustreated with a bupolar spark under general sustream and the supplies and the supplies that t

been located

These two cases surely demonstrate the value of
a high frequency when other methods of treatment
ful as in the first mentioned case. The author does
not fa or extensive resection of the bladder as in his
on experience it has been followed by recurrence
in nearly every case and he has abandoned the interhalominal operation for less radical measuratholominal operation for less radical measurafloating in the first of the control of the
destroy; if the tumor mass by the actual cattery
and deep penetration of the base with a bipdix
park. HERSHOW. I. KERSHOWS

Judd E S Non Papili ry Benign Tumors of th Bladder T Western Sang Ass., St. Lous, 923 Dec. By Surg Cynec & Obst.

Judd not a that out of 164 neoplasms of the bladder operated on in the Mayo Clinic, two were of the on papillary benign type springing from the muscular layer of the bladder

In a review of the literature he finds you ambie cases previously reported in most of the reported cases, bleeding was the first and most marked symptom. Bleeding came separatuly from the property of the state of the unclust tumor stated into the bidder and out ward into the peritoneal c vity. Proport of our and that the peritoneal c vity of the state of the unclust of the unclust of the unclust of the unclust of the property was close to be meating of the two cases herein reported was close to be meating of the unclust — both were producedlated and both were ensoved supraphically. The and the state of the unclusted was close to the state of the unclusted was close to the state of the stat

P thologically the t mors were covered by strait fied mucous membrane s sudar to the mucous of the bladder th y were composed of smooth musclefibers and fibrous conn ct: tissu and their appearance throughout was that futerine myomats Beer E. Transperitoneal Resection of a D verticulum of the Biadder A & S g Phila 913 by 614 By Surg Gyner & Obst

The author reports a case in which he resected a diverticulum by a modified transperitoneal method-Cystoscopy showed two normal wreter ornices from one of which purulent urine was obtained and from the other clear urine A diverticulum could be seen and examined by the cystoscope The residual urine was 20 to 26 ounces the bladder capacity 49 ounces The filled bladder extended to the umbilious The X ray with collargol showed a diverticulum about as large as the bladder itself Operation was decided upon because of the high mortality of unoperated cases After washing the bladder the diverticulum was approached transperitoneally and easily dissected free The large retroperatoneal space left by operation was drained by marsupiah zation The patient made an uneventful recovery and twenty six days after the operation he was discharged cured B S BARRINGER

MacGowan G The Transvers Incision and Abdomin I Fascia as a Method of Approach in Suprapublic Operations on the Bi dder and the Prostate J Am M 1sz 9 3 is 1805 B) Sug Gyace & Obst

As a result of personal expenence in a large num ber of easies the author advocates a transverse in cason through the skin superficial and deep fassina and through the skin is superficial and deep fassina through the sheath of the recti muscles. This be claims inaures good exposure easy retraction and the avoidance of training to the space of Retrius infection of which in the author's opinion accounts for the grater mortality following suprapulic cystolomy than from the perinerl route. The author's method of denuage after suprapulic cystolomy consists in the introduction of a large truber tube which is fastened into the bladder by a purse string suture through which continuor impaction is made.

Randall A A Study of the B night Polyps of the Male Urethra S rg G, ec & Obst 9 3 548 By Surg Gyace & Obst

The author gives a critical study of the terms nolocy used to designate the polyroid growths of the urethra following this with a classification based upon the examination of ten speciaries all of which were studied by microsopical serial sections. The viewe of the hierarchice place is a serial serial section of the review of the hierarchice place is a serial seri

He concludes by retains g the word polyp as a generic term for the entire group of growths he advises I miting the term caruncle t the growths as they occur in the fem le he e cludes the term con dy loma as one has never been described as occurring

in the male urethra and retains the term papilloma restricting it to the type of growths which histologically show proliferating papillae

logically show proliferating papille.

He classifies the oplyps of the male urethra into (1) Pure type or beings fibrous polyps (2) villous or papillomatous, type or beings villous polyps (3) glandular type or being glandular polyps. He illustrates these types by reporting four cases of the first group two of the second, and four of the third

The greatest interest centers about the group of glandular polyps which have only rarely been observed and as pointed out by the author may have an important bearing on the etiology of the glandular hypertrophy as it occurs in prostatic enlargement

Cru elihier L. Sens tized Virus Vaccination in Gonorrheen and Especially its Complications Li cel Lond 1913 clexx 13 By Surg Gynec & Obst

Conveiling claims good results from the use of sensitized (Bereicka) ponococcus vaccine in the treatment of epidely mits prostatitis metro aslipungitis and geonorhocal rheumitum. The number of ca es is not guen. All the cases of pendidymitis received no treatment other than the inoculations which were given subcutaneously at \$40 hour intervals and repeated two or three times from the contract of the case of the

Utero adrenal complications of gonorrhors showed marked improvement in discharge in nigod and painful abdomen and in general health following two or three inoculations. Cases of acute and chronic gonorrhoral rheumatism have yielded promptly to the treatment the striking features being the relief from pain and the speedy return of joint function. While the author thinks the heat results are obtained in the treatment of the compiler cations and the chronic states of gonoaccess infections and the chronic states of gonoaccess infections and continues chains very good results in cities and cronic seasons and cronic seasons when the complete the compiler continues and cronic seasons when the compiler continues and cronic seasons when the continues and cronic seasons are continued in four weeks. In no institutions at these sex re reaction f llowing the inoculations.

#### GENITAL ORGANS

I esp nasse \ D Transplantation of th Testicle J Am M Au 9 1 1 869

B) S rg Ganc & Obst

Lespunasse reviews the experimental work of me in tran plantation of the testicles which was usually uccessful in frogs and chicken in higher animals however failures per al. In his own experiments is found that there we an immediate destruction of the spermanegeme. It is but that the interstitual cells urated at least two months after which time most of the experimental animals were killed

In the human case which he reports the patient had lost both restrictes and Iso the power of erection. A piece of testicle removed for this purpose from a live man was immediately transplanted to him and revived the power of erection within a few days after the implantation. The patient a power of erection was perfect a year and a half after the operation. Since that t me the patient has not been observed.

Vilson, A. C.: Treatment of Gonorrheal Epidid ymitis by Bler a Method Brit M. J., 1913 is 1981 By Surg Gynec. & Obst.

The cord on the affected side is encuried just above the testicle by a strip of int one and a half inches wide which is extried around between the two testicles along the median raphé of the scrotum Over the lint is applied a fine piece of rubber tubing which is secured by an artery forceps after it has been tightened to the required extent. This means that no pain results after the application unitard with immediate relief of pain. After a few moments the tassues assume a purple is color lite that of a ripe plain. The treatment is applied the first day for an four if it can be borne for that length of time the time is gradually increased up to eight hours a day. The longer that applications the

shorter the duration of the disease.

Four cases in asions treated by the usual old time methods required in all 6a days of treatment an average of 1.5 g days each six treated by the hyperzem a method required only 44 days all to

gether an average of but seven and one third days apiece or less than half the former time

Faxor E Garner

Schloffer II Technique of Suprapuble Pros tatectomy and Its After Treatment Zur Technic der upprobaschen Prostatektome und fibre Nachbehandlung) Freg med If de ach 1913 2224 523 323 By Journal de Chrumpte

The mortality of trans-escal suprapuble protatectomy has in recent years been reduced to less than to per cent. The cause of this decoded in provement his not so much in the improvement of operative technique as in the after treatment. The enucleation should be performed not as quickly as possible but as carefully so as to lesses the changer of harmorrhage. The author has no er even may harmfull results from dressing the bladder awards before the blackform of coagula which stop up the dressings and the complications arising from hemorrhage which he thinks are due much more to this cause than to the sexual loss of blood

The bladder should not be fastened superficially but deep down so as to avoid the formation of a fautha. The dramage tube should be in the upper angle of the bladder wound as far as possible from the symphysis and should be sutured so that it is water tight and no such a way that the bladder wall is invarganated as much as a thumbberedith or more 10 order to make the possible the perstoneum must

be carefully dissected off from the bladder wall over a space as large as a saucer so that there may be no danger of including any pentoneum. By sung the broad drainage tube there is no possibility of a col lection of fluid in the bladder so long as the tabe re mains in position Schloffer irrigates as little as possible in the first few days after the operation arrigation is practiced only if the drainage tube becomes stopped up The second indication for urigi tion is the decomposition of urine in the bladder and especially in the bed of the prostate But he thinks the arrigation itself may carry infected particles into the tissues To be sure there is a collection of necrotic tissue in the bed of the prostate that must be re moved but this can be done after a considerable time irrigation in the first few days after the opera

tion is not necessary As the formation of a stricture at the site of a prostatectomy is not generally to be feared, he re moves in the course of the enucleation not only the prostatic urethra but a large part of the mucous membrane covering the prostate. He recommends that the left index finger protected by a glove be introduced into the rectum as this makes the enu cleation much easier He opposes the use of a tampon in the bed of the prostate during the first few days The bladder drain remains tall the seventh or eighth day on the sixth or seventh day a permanent catheter is inserted and the necrotic fragments are then washed out through the bladder drain after which the drain is removed and regular irrigations performed through the permanent catheter which remains until the fourteenth day. The ultimate results of this after treatment have been uniformly favorable

Blarion, G After Treatment of Suprapubl Prostatectomy (Sous constentis à la prostatetome sus-publicate) J d und 9 3 17, 533 By Journal de Linturge

Post-operative treatment is of the greatest importance in prestatectomy and Maron studies it in detail it includes (i) Local treatment to secure the earliest possible healing of the sprayubler asvescoptostatic woulds and to put the bladder in perfect condition (i) general treatment (g) treatment of combinations

Lead it elment. The first indication is to stop hemorrhage from the pressure cavity. Marion tampons it with gause sponges with tapes passing out of the bladder through the lumen of a Freyer's tube. This tampon is left in place for three days. The more or less frequent dequire to unnate which is caused by the presence of the tampon, is trileved by suppositiones of beliadonns and morphises.

The sponges are removed the fourth day and the large Freyer's tube eplaced by the largest sured Marnon s tube. I very three or four days the dran is removed and replaced by a smaller one the dress mg is ordinarily changed only when the tube is

About the twelith day the hypogastric wound

has sufficiently recovered to establish permanent drainage To be sure of the solidity of the closure of the bladder the sound should be kept in for 48 hours after the cessation of any discharge from the hypogastric would In some cases the vertical wound is closed in 12 days on an average however it requires 17 to 21 days and sometimes 25 to 30 days
General treatment This includes the treatment

of shock immediately after the operation and care of the digestive and genito-unnary apparatus. The diet should be closely watched to avoid azotæmia and chloruramia which may be caused by deficient

nutrition

Pulmonary complications are rare but it is well to have the patient sit up as soon as possible. To have him get up and walk early however is apt to do more harm than good as early walking frequently causes phiebitis of the lower limbs

Comblications Secondary harmorrhage may ap pear from the tenth to the twelfth day from the senaration of a prostatic scar it is very rare and is generally controlled by tamponing the prostatic

Infection of the abdominal wound may occur in patients who have had a cystitis If suppuration reaches Retz us space dramage is necessary

If the orifice in the bladder is not closed by the thirty fifth day surgical closure of the fistula is necessary The most important point in this operation is the complete dissection of the bladder from the abdominal wall the resical wound should be

closed by suture in two layers Incontinence after recovery is met with some times It is ordinarily orthostatic and generally

yields on dilatation of the urethra

Stricture of the urethra at its opening into the prostatic cavity is rare it may be remedied by progressive dilatation or internal urethrotomy

Orchitis is exceptional if the vasa deferentia are ligated but is quite frequent if they are not especally after a permanent dramage tube is inserted but even if it occurs the drainage should be maintained

Azotæma or chloruræma may appear after pros tatectomy they are the symptoms of acute ner us, often caused by the chlorolorm and should be treated dietetically

Pyelonephritis is a serious condition and may be caused by manipulations of the bladder or urethra causing traumatism of the mucous membrane Extreme care should be exercised in post-operati e manipulations to avoid injuring or infecting the ur pary passages

Urmary infection generally yields read ly if the bladder is well drained. A permanent drainage tube should be used in addition to the suprapubic dramage nd continuous irrigation of the bladder gues excellent results

There are various f rms of phlebitis

A common form is characterized by pa n in the leg elevation of temperature and ordems it may reach the abdomen or in olve the other leg It is of long duration but generally recovers

2 The infectious form in which the cedema is less marked is generally limited to the leg but the eleva tion of temperature is greater and the general condition bad This form is complicated by small infected embol: which produce a chill a rise in temperature and a worse general condition A repetition of such emboli may cause death

3 A deep form phlebitis of the periprostatic plexus is insidious and generally not recognized because not accompanied by any tedema of the leg The only symptoms which would lead to suspicion of its presence are a rise in temperature and a change in the general condition not explained in any other It is the most frequent cause of rapidly fatal emboli

#### MISCELLANEOUS

Hinman F: An Experimental Study of the Anti septic Value in the Urine of the Internal Use of Hexamethylenamine J Am M Air 1913 By Surg Gynec. & Obst lxı ıfa

This paper gives the results of 418 quantitative estimations of formalin in the urine of rif patients getting hexamethylenamine by mouth (grains, xy t 1 d p c) and considers the important factors in fluencing the excretion of bexamethylenamine in the urine and the subsequent conversion of this into In the author's opinion hexamethyl enumine has no antiseptic value and formalin can only be of value in a dilution of about 2 to 30 000 or stronger He used a modification of Riminia phenylhydrazin nitroprusside test for making the quantitative estimations of formalin

Only four of the 116 cases failed to show forma-In each of these four cases only one specimen was examined The remaining the cases were positive for formalin at some one examination Only eight cases revealed formalin in germicidal strength and five of these patients had been fed on acid sodium phosphate so that in only about a per cent of the usual cases did the urine give the r to 7 000 test at any one time 25 per cent had formalin in amounts to give complete bacterial inhibition 55 per cent of the cases gave at some one examination a r to 30 000 test or better 44 per cent of the cases although formalin was present at no time had this formalin in sufficient amount to furm h antiseptic benefit Of the 318 examinations, 36 per cent were definitely antiseptic and of these only 17 per cent showed formalin in strength to give complete bacteriostasis and only 5 per cent were germicidal 64 per cent had less than 1 to 30 000 and possessed no antiseptic value

The findings in 33 cases in which the kidneys were definitely diseased do not indicate that disease of the kidneys exerts any influence whatsoever on the formalin content in the urine

it the level of the Lidney hexamethylenamine is of little or no antiseptic value, as indicated by the find ags on 3 catheterized (ureteral) specimens only ave of which showed formalin and only in a strength of about z to 60,000 The author explains this slight conversion at the kidney by the lack of time necessary for formalin conversion in an acid med um

The factors that influence the formal n content in the urns are considered of two kinds those that influence hexamethylenamine excretion and those that influence hexamethylenamine conversion

The aue of the dose the interval of administration and the charverer of the changes in the acid contents of the atomich are the important factors in exerction. Lavage of the atomich one half beautiful after feeding to grain of hexamethylenamic showed formalin in the stomach contents in the proportion of about 1 to 20,000.

In patients who had been given formain by mouth but who had not been getting betaineth pleasanne neither heximethylenamine per for mails were fitter found in the unner. The amount of hexamethylenamine broken up in the act of the stomach therefore is that much loss for subsequent conversion in an acrid urine. The feeding of salod-cautel pulls of hexamethylenamine so as to carry the hexamethylenamine so as to carry the hexamethylenamine es though did not make an appreciable different in the formalin content in the urine but the method is available for he gastic activity or irritability.

With respect to the subsequent conversion of the heasenthyloramous in the units the degree of unitary archity is the most important factor. Using phenolphishlesin as anandrat 7 in occin of units were titricted aguing. Whill to determine unitary acidity. This varied from a to 7 occin, the area spec of the 11st examinations mide being 3 ccm. so of the units both an acidity of less than 1 ccm. and of these 13 were negativened (see that it ccm. and of these 13 were negativened of the units with an acidity of less than 1 ccm. and of the units with an acidity of formal in and with the exciption of six cives all aboved formals and with a dutum of 1 to 4,000 to better.

The importance of urinary acidity is further shown in the following observations

3. The urine of a patient on hexamethy lenamine if acid will after standing go e a higher test for formalin than when fresh

2 If hexamethylenamine a sided to an acid urine it will be quickly con ried int formalin. On the

other hand hexamethy lenamine added to a neutral or alkaline urine shows none of this conversion

3 The addition of sodium and phosphate or of any acid, to the unne of a patient on hexamethylen amine negative for formalin will convert the hexamethylengagine present

4 Increasing or decreasing the acidity of the urine of a patient through h s diet causes a corresponding change in the formalin content of the urine

The conclusions are that

The conversion of hexamethylenamine into
formalin is a simple chemical process which will
readily occur in an acid medium but will not occur
in an affaine medium.

a The amount of excretion of hexamethy lenames in the urine is influence 1 by the size of the dose by the frequency of administration and by the charter of the changes that occur in the send contents of the stomato.

3 The amount of the subsequent conservou of this hexamethy heratume in the unner is dependent on the degree of urmany activity on the huration of expourts to the mifutence to this activity and on the percentage concentration of the drug in rt and in order to rg in formain conversion in antiseptic amounts the urmany activity should be greater than over the first harmal solume by droughe for so centered feath harmal solume by droughe for so centered feath and and solume by droughe for so centered feath sortal solume to the solution.

4 A low acidity may be temporarily increased by feeding certain soid producing drugs, and this acidity may often be maintained by giving these drugs afternately

5 Disease of the kidney has no influence on the f rmalin content of the trune 6 At the level of the kidneys, hexamethylena

muse in doses of 5 grain three times a day has no antisentic value

7 form has present to the bludder urine in some amount in pract cally every case receiving 15 grains of hexamethylenamine by mouth three times a day but because of the great significance of urin 17 cardity this douges too small a routine from shirth.

to always expect a reasonable antiseptic benefit

8 The allied hexamethylenamine compounds do
not give greater antiseptic alues than pure hexa-

met hy lepamine

# SURGERY OF THE EYI AND CAR

EYE

Inclusion Blenorrhora in the S ssmann R h w Born (Lin Be trag zur k unt is der I'm whitesthiestorrhöe der \eugeborenen) De ische med Bel selv to a xxxxx 646

ity Zentralbi i d ses Gynäk. Geburtsh s d Grenzgeb About one-third of all the cases of blenorrhera in the new born have bitherto shown no bacteriological findings. Different hypotheses were proposed to explain these questionable cases among which the so-called late infection of Heamann was the most generally accepted until it was found that the von Provazek Halberstädt epithelial inclosures, the truchoma bodies were found more frequently in cases of blenorrheea in the new born than in real trachoma Experimental investigation finally led to the complete identification of these inclusion blenorrhesas with true trachoma. Further investi gation showed however that inclusion blenorrhora was an independent hitherto unknown disease

The author from his 72 cases of blenorrhots and blenorrhoral catarrh resembling trachoma comes to the foll wing conclusions Inclusion blenorrhera forms almost half of all blenorrhora. In this way the gap left by the negative bacteriological examina tion in so many cases of blenorrhora is filed Most late infections are thos of inclusion blenorrhora These show a marked lack of bacterry muxed infec tions with gonococci are rare. In Jusion blenorrhoea is distinguished from gonococcal blenorrhora by its longer incubation period 5 to 9 d 3s b) its more seropurulent secretion stronger tendency to hæmor rhages from mucous membrane, by it protracted course and by the fact that it pares the cornea Simple catarrh of the new born is not inclusion blenorthera B RELL

Miller R. W: Affections of th Eyes Resulting from Sinus Invol ements Cal f St J Med 0 3 22 45 By S rg Gynec & Ob t

The careful examinat n and treatment of the supuses a ocular and neutalgic complaint in kes it possible to plain the ctiol go and path logo f many ocular a 1 rintal disc ses

Only after pecial care and repeated examination is it possible to discove the source of the trouble i non uppurative and losed pou at e cases of sanus in I ment to part of the eye i ex mpt from secondary inva io from it us diseases. The causes of organic ocul l orbital disease are (1) Mechan cal or irritative ( ) toxic (3) septic These may result hypermina hyperplas a or some type finfl mination.

The frequent occurrence of a nu nflammation.

with ocular or orbital complication noted in the last few years in Los Angeles prompted the article Ocular or orbital pain at some stage of the process must be regarded as one of the chief symptoms The orbital pain is aggravated by muscular action of the eyes The anatomical condition of the turb nates and masal septum explains who sinus diseases are so generally bilateral Miller inten tionally omits the numerous diagnostic tests for sinusitis It is his experience that ocular complica tions have been observed with far greater frequency in chronic than in acute s nus involvements \u merous cases showed evidence of chronicity with acute exacerbation Long continued closure from egress and ingress of air with its oxygen content seems to aggravate the condition of the involved sinus which maintains a constant swelling and bagginess, and eventually develops into hyperplaua with or without suppuration. This favors ocular complications, varying in degree from the milder to

the pronounced type of intra-ocular uppuration He cates the case of a woman aged 35 who com plained of feeling sand in her eyes and of being unable to use her eyes for close work. She had frontal beadaches slight conjunctival congestion and slight tenderness on pressure in the upper and inner orbital angle. The ophthalmoscope revealed a mild chonoretinitis in each eye. The refraction error was slight and she foun I no rel of from wearing The anterior part of the right middle turbinate body wa removed and a few days later the entire left turbs ate was removed. Pus 2 cent in quantity was seen to flow from the ethmor i calla-The treatment wa followed by marked rehef

#### EAR

Lynci R G.: Congenital Absence of Both F re icl R G.5 Comments.

Laryngoscope 913 x 11, 1 50

By S rg Cymec & Olist

The case reported by Lynch is that of a boy 12 years of age having ix brothers and sat re all of whom appear to be normal in their des lop-ment while the unfortunite sul ject of the paper h d not even a ign or sesting of an auricle or ear on either si le of his h ad th. Lin being absolutely clean and smooth co ering th ord nary site of the auricle and external auditory meatur

In the nasopharyn a corresponding lack of det I pment existed there was n pr minence of the ustachian tube a I indeed no tube at allno fossa of Rosenmiller Although the loctor could el cit no evid nee whatever of h aring by use of tun g f rks or any form of extraneous noise th mother of the patt at maintained that the box

would imitate chickers and cows, would dance with foy when the piano was played and would run to the river bank when the steamboats whistled. Lynch reports this case as being the only instance of such a condition of which he has been able to find a record II SEATTE BROWN

Whiting, F The Indications for the Labyrinth Operation. N Y St J Med 19 3 20 596 By Surg Grace, & Obst

The author states that though much has been accomplished in recent years by the critical study of the physiology of the labyrinth still the symptom atology of labyrinthits, with its bearing upon the indications for operation is still an uncompleted study.

He emphasizes the fact that while even a small amount of pus contained in the labyrinth is a constant menace to contiguous intracranial structures still some cases of purulent labyrinthitis heal spontaneously and consequently accurate disagnosis is necessary to anticipate a favorable outcome for

operative procedures

when the private in a private interference undended in other a crumanched or a diffuse across in the properties of the p

ELLEN I PATTERSON

McKinney D R.: Cavernou Sinus Thrombosis Report of a Case Largest He 913 ZIII, 059

The patient a woman 31 years of age was treated for animum trouble, which was releved by urigation Later following a severe cold in the head her face swelled and she developed pain all over the right ade of the face and above the right eye and foul smelling pays was occasionally discharged from the corresponding nams. Her temperature was not \$^4 to 100 and morphum was required for the pain. The right antrum was discharging pus, and the welling increased so that the upper lid of the right eye was closed and showed blush congestion in denting blood stass

The treatment consisted of an ice pack con innously and a 2 per cent cocaine spray with frequent ungation of the right nairs with a warm saturated solution of bone and. The temperature fluctuated between 103 and 04 when it rose the patient became more or less delinous

Four days after the first evamination her temperature became normal and she said she felt better than at any time since the beginning of the attack Soon, however the temperature began to rise

delinum developed and the patient died in the afternoon of the same day H BEATHE BROWN

Beck J C: Fallures and Successes in Diagnosis and Surgical Intervention f Some Intra crunial Diseases, Especially from the Stand point of an Otolaryngologist with Report of Cases Illino M J 1913 zitv 256 By Surg Gynec & Obst

Because of his firm conviction that lessons learned from failures contribute as much to the ultimate success of a surgeon as a recital of successes, the author has set forth and attempted to analyze both

his failures and successes.

The conditions discussed are Sinus thromboas memoralis, extradural abscess brain abscess, brain tumor hypophysis tumor miracranial hemorrhage with and without fracture of the skull gasserian gangion affections—intractable tic doubourers—strenal hydrocephalus and encephalocole.

Of 38 cases of sums thrombosis, either with or without complications, as built and jugular involve ment mentagetts, brain abscess, and general septus, or some other general condition as preminous or some other general condition as preminous but in the sum of the sum of the sum of the bar 12 latal cases 10 were complicated mostly by septic preminous which came practically monburd to the operating table the 3 remaining cases which were dangened early and apparently not complivated died from rangiby developing meningitis and the sum of the sum of the sum of the sum of the other cases were of the simpleoconic type of infection.

Of the 5x cases of memigrins of which the suthors had adequate records, 8 had spinal punctures and septic organisms were recovered from 12. The diagnosis of diffuse septic menigrits was made in 3x cases of the 5x. Of these 3x cases at cases to yearston, either primarily as a sunsi accessory and the exposure of the meninges over the sext nearest the indication and finally the opening of the custerna ranges. Of the 1x remaining cases of meningities with the control of the control of

G 6 extradural abscesses, 11 were found at the men of operating for mastord amus thrombous, and feminal sumes after operation of the 4 fattle cases; were operated on and complications arose on account of intradural shortes, menugitat, and general sepas; I case which was diagnosed, refused operation but a post-nature are amusation revealed a large extradural.

abscess in the cerebellar region

Of a cases of intradural abscess a recovered, thoth of these were in the temporosphenoidal area and the operation was by way of the mastend tegmen butte. In neither case could there be any microgramsm recovered from the pus of the abscess.

either in smear or culture. In one case the abscess offlowed a supply destructive mastorditis in an influenza infection and the second occurred in the seventh week of a scarlef fever outsin media in a child aged 3 years. Of the 17 remaining cases in cases to operation of were not the credeble the page 2 cases either refused operation or were too far ad vanced to be submitted to the operation.

Of 8 cases of brain tumor there was made a correct localization diagnosis in 5 this number not including gummata. The pathological types were cyst outcome or existons fibronacroms, and floma. The locations were 2 in the motor area z occupital (supratentonist); 1 in the positive cerebellar angle x frontoparietal and z at the base of the frontal lobe. Five were operated on with a mortality of 75 per cent. In not a single instance did the rontgenogram reveal the tumor. Spiril punctures were made in 7 of the 8 cases and only in x was there shy increase in pressure and in all there was a negative Noguchi.

globulin or Nonné test present

Besides several cases of acromegaly there were
3 cases of hypophysis tumor diagnosed only at
operation or post mortem 1 was erroneously diag
mosed as cerebral tumor the other 2 were diagnosed

as nasophary ngeal fibrosarcoma

There are three types of intracranish amorrhage
(1) basal fracture (2) fractures not including the
base (3) combined

A case of intractable tic douloureux is cited in which the ganghou was completely removed, with out giving the patient the expected relief

The author reports one case each of external hydrocrephalus and encephalocele with fatalities in both

Dan F

Day E W Report of 8 Cas s of Purulent Men ingitts Operated Upon by the Ha nes Method Post Viortem Find ngs Larynte ope og 2 xxm, ogt By S rg Gyace & Obst

Day gives due credit to Haines for originating a brilliant operation for the treatment of purulent

meanagits and though it seemed to offer great possibilities as a curative measure a sufficient number of cases has not as yet been reported to establish a conclusion as to lite real value. The author reports twelve cases of suppurative menin gits treated by him in men of which he performed the Haunes operation by drainage of the cisterna magna

The author notes that in only one of his cases was there any evidence of cedema of the fundal vens, neither was there any constantly increasing blood pressure. One case recovered. The establishment of free draunage for the cerebral fauld was not difficult. In seven cases the amount of fluid drauned

in 24 hours averaged eight ounces

In all but one case the diagnoss of menngtus was confirmed by lumbar puncture. The symptoms were not of minished by drainage of the custerns amagna in the two cases that were secondary to fracture of the base of the skull while in the other cases there was a definite period of improvement evidenced by lessening or absence of headache evidenced by lessening or absence of headache chazer mentality loss of muscular rapidity closed by the usual progressive sepais deathy and again a deep septic coma and death apparently free from pain. The period of improvement varied from a few hours to nine days.

Day divides the course of this disease when treated by drainage of the cisterna magna, into three well-defined periods (1) The period of invasion (2) the period of improvement and (3) the period of

He gives an interesting history of his cases with the pathology and autopsy findings and concludes his instructive paper by saying. Drainage of the custerna magan handers the development of a diffuse meningitis over the hemispheres prevents the accumulation of inflammatory exudate in the subdural spaces but appears to have no effect upon the accumulation of pus in the pia rarchinoid and does not influ nee the progress of the infection at the base of the brain.

# SURGIRY OF THE NOSE, THROAT, AND MOUTH

#### NOSE

Sinder G Nerve Trunk Ansesthesia and Car holization in Nasai Surgery Lary 1 1096 1013 M 1078 By Surg Cynec. & Obst

The author tates that three years ago he began the cocalinzation of the sphenopalatine graphon as a procedure for postnassi surgical anesthesia. A short time later he adopted a similar practice with the nternal nash nerve.

He has found the procedure exceedingly aguslactory. A very mall apphasize containing agushalf minim saturated solution of cocane mure is placed under the posterior my of the maddle turbinate and allowed to remain for fiftee minutes. Fight mutules after setting the applicator for the ganglion the applicator as set for the internal areal nearly. Smaller applicators used carrying on half drop applied to the uppermost anterior a pect of the nased loss.

Both applicators are removed simultaneously one having been in fitten minutes and the other seven. The anextheua thu produced gives more than half an hour for the performance of the most comprehens we bone surgers of the literal wall.

The author refers to another method used by him which he calls nerve trunk blocking in which he uses a per cent phenol in or per cent alcohol injected by means of a straight needle used both for the internal pasal nerve an I the sphenopalatine gan glion To introduce the needle into the sphenonala tine ganglion it is passed under the posterior tip of the middle turbinate in a direction upward back ward and sightly outward and is introduced two thirds centimeters by mea utement from it point of contact - one half cubic centimeter of the solution is then injected Carbolic acid dded to the alcohol prevents much if not all of the pain of alcohol when injected and the analgesia werns to the author to be much greater and of longer dura W H TANISON LION

Noyes W I Report of a Few Lases Whire Sutures in tend of Packing, Have Been Used After Submucous Resection of the hassl Septum Bion W 5-5.7 9.3 dix 54
B burg Gy a. & Obst

The method of fin hing the peration is a deacribed by Lothrop and mu to of a quilting 1 tch bong used through both flaps as far back as the bone and cartilig ha been removed finor more sitthers being employed

The author report o ares n o of which the results of this procedure were ry satisfactor; in the tenth an absence of three da duration resulted

due as she considers to faulty placing of the

The advantages of this method are Free breath ing less discomfort less trauma to turbinates and more rapid bealing Fa 12 h Fourse

#### THROAT

Casselberry W E : The Recognition of Early Changes in the Larynz in Inherculosis J im M Ass 913 ks 789

The author urges the importance of early dag nous of laryngeal tuberculous, especially in a tuberculous subject since progness and trealment depend largely upon laryngeal into lement Ulthough not differing from tuberculosis else

where harpoged substitute the controllate evewhere harpoged substitute to one certain sates, each of which tends to stump the tenson with its own cache of high tends to stump the tenson with its own local function and though the same tensor to the tuberculous matrix is apt to les, as must distinctive of the tenson tried! This is expecially true of a site lesspaired by the author as the vocal angle and fescribed as starting at the base of the vocal process and mounting with a posterolateral trend it marks the Jaw before the superficial surniculars of the true cord the false cord is did interary tensol fold merce into one.

In ordinary phonation and in a normal larger in imprint i noticed at thi site but tuberculous inditration will cause it to retain in the form of a furrow or first r the impress made on it at the folding line.

This hyperplasia commencing at the subjective portion of the base of the outlingness and marked gradually by a furrow in the vocal angle the subscription of the cartiest and most distinct e of all the initial changes wrought by imberculous in the larger and sudcates tuberculous before interprise of the preplasia would his e-passed the stage of similarity to non-tuberculous infiliration.

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#### 11 11111111111

MOUTH
McCurdy S L Flastic Mouth Surgery Full
burk M J 9 3 9 B Surg Cypec & Ohst

In this paper the author advocates the complete closure I wounds within the mouth depending upon the use of inciter of sodine for sterindation, a siter the remo al of sequestre or even the antical floor and avoid ag the gause pack which forces the tissue farther way from the bone and ret rid repar is

In the lover jaw when dramage is necessary in measure is made from without or when an abscess is posting it should be treated in like manner. Two cases are reported. One in which the antrum was opened while operating on a cyst and one in which it was necessary to remove the external half of the mandible from the right second molar to the second incuspid on the left side leaving the treasuring bone denuded over a large area. In both cases after the application of inclure of solone saler the spicacion of sincture of solone the wounds, after the edges were freed were closed in the second case an acts on was made through the skin bleneath the jaw and a rubber dram inserted both cases making uninternuted recoveries.

He describes another operation for closure of a naso-oral fistula assuming that the labilat gingwal structures are destroyed and that the langual per osteum and mucous membrane extend well down to the normal line

He makes a flap or tongue large enough to cover the opening by incising the mucous membrane and periosteum freshening the end of it as well as the borders of the opening and suturing it in place with the chromicized gut

H. A Porrs

#### Loeb V Filds for Research n Oral Surg ry J Am V dr 913 l 889 By Surg Gynec & Obst

In this short paper the author confines his remarks to some of the fields for research in oral surgery which are not definitely marked out and to facultate the discussion divides the subject into five classes embryological anatomical bacteriological physiological and chemical

Those comprising the first class are Cleft palate which has been produced in animals harel p fistula of the lip fissure of the tongue and cheek, facial asymmetry and congenital teeth

Cases are cated showing the hereditary influence in deft palate and harelip Ballenty in thinks the solution of the problem lies in a thorough embry ological investigation teratological developments being utilized as hints to direct research

In the anatomical field the ingual papills the musculature of the lips and cheeks in articulation as well as the lymphatic distribution and the exact location of the pharyngeal end of Rathle's pouch ment more definite research In bacteriology there are many undeveloped problems such as relative virulence of micro-organisms act different agea, the specific cause of pyornhea alveolars for of infection and the absorption of toxins from them

The salva also presents a number of important physiological problems for investigative work among what is the problems for investigative work among what is the property of the problems of th

#### Dean L. W: A Method of Closing a Sinus Be tween the Antrum of Highmore and the Mouth J Am M A: 013 in 1613 By Sug Gynec & Obst

The author advocates this method of closing sinuses, remaining after removal of large quantities of bone following necrosis, or in chronic cases, which require permanent dramage into the nasal After numerous failures due to improper suture material and imperfect mattress suture he details his technique as follows claiming of per cent umon After having completed proper drainage into the nose by the Denker or other suitable operation and the removal of necrotic bone after dissecting the gum and periosteum up from the inner and outer al colar plates, which he removes sufficiently to allow the periosteal flaps to fall together without tension he applies along the inner and outer sur faces of the alveolar process a piece of small rubber tubing long e ough to be tucked under all the low passing a double armed silkworm gut suture from within outward the loop passes around the tube on the mner side and the knot hes upon the tube on the outer side care being taken that the pressure be not sufficient to produce necrosis, the wound and sutures being cleansed hourly with hydrogen peroxide Within seven to ten days healing may be completed II A Porrs

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# INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1014

# MONTHLY COLLECTIVE REVIEW

# TREE TISSUE TRANSPLANTATIONS

BY D B PHEMISTER M D CHICAGO

THE transplantation of detached portions of the living body has long been of interest as witnessed by the fact that it has so frequently been the theme of the artist during the past three or four hundred years Occasional attempts at its performance were made but with uniformly bad results until after the middle of the 19th century In 18,8 Olher established its feasibility by the successful transplantation of bone and in 1870 Reverdin performed the first successful skin transplantations New possi bulties were soon opened up by the introduction of antisepsis and with the works of Thiersch Krause Wolff and Hirschberg the transplanta tion of skin was carried almost to completion However little headway was made with the transplantation of other to ues until the begin rung of the present century With a more refined technique came renewed interest and one is safe in saying that during the past ten years the free transplantation of tusues has been more exten sively in estigated and more rapidly advanced than any other phase of operative surgery composition of the transplant has been extremely varied all of the different tissue elements have been transplanted either separately or in com-bination chiefly with the idea of restoring miss ing portions or correcting mechanical defects Portions of or entire organs have been transplanted in order to obtain their physiological effects in a host where the homologous organs are defective either as a result of disease or of opera tive removal as for instance the transplantation of parathyroid for post-operative tetany follow ing accidental parathyroidectomy in poster operations The result of a transplantation is dependent upon a great many factors which may be considered under the following heads

1 The nature of the cells comprising the transitant. The more highly specialized a cell is the less marked are its resisting and regenerating powers and this a particularly well shown in the case of transplantations. The simpler tissues which require less nutrition survive for days on the transuclate which permeates them but the more highly specialized ones undergo necrosis as a few hours without a blood vascular carcula tron. The most favorable tissues for transplanta tron are the simpler connective tissues, such as tendons fat fascia and bone the most un favorable ones are muscle and nerve.

The source of the material Autoplastic transplants are those which are degreed from the same animal into which they are transplanted and other things being equal give the best results. The trassics and fluids of each body are different from those of every other body and while this difference may be only slight it is sufficient to make it advassable whenever position to use the patients own tissues for the repair of his defects.

Homoplastic transplants are those which are derived from another annual of the same species When composed of the simpler tissues such as fascia and tendon they may be used successfully but not with the same regularity as autoplastic grafts and when composed of the more highly differentiated cells such as skin or intuous mem brane they result in failure Other objections to ther use are that material is often difficult to obtain and that disease may be transmitted from the donor to the host

Heteroplastic transplants are those which are derived from a namual of a different species or consist of dead animal tissue. Laving tissue from a different species always sucumbs when transplanted into man or the higher animals. If there is infection which is particularly liable to occur it immediately sloughts out. If there is no infection it either becomes incapsuated or is absorbed and is slowly substituted by the tissue into which it is transplanted as may happen in the case of bone months after its transplantation. Hence chinically the transplantation may be a success while the transplant undergoes partial or even compilete necross

3 The indication for the transplantation If tussue is transplanted into a location in which it is not needed it is even harmful and where there is no function for it to perform its cells may retain their vitality but nearly always there will be few or no proliferative changes in the transplant. On the other hand a sort of atrophy of disuse usually sets in and it slowly decreases in size and is eventually absorbed. However if it is transplanted into a defect in the course of tissue where there is demand for it to perform a func tion proliferative changes are usually marked and it rapidly becomes united to and similar in structure to the portion into which it is transplanted This is according to the law of func tional irritation laid down by Roux II the transplantation has been technically so well performed that active demands can be made upon it to func tionate without injury the response will be very much greater as in the case of transplanted tendons which have been so well sutured that early active movements can be carried out this is well illustrated by the experimental work of Lews and Davis This rule holds for glandular tissues which have a secretory function to per form as well as for connective tissues whose func tion is local and mechanical Halsted has shown that parathyroids would not take and remain alive for any length of time unless there was a deficiency of parathyroid material and secretion in the animal

4 The technique of the transplantation This is of very great importance. Aspess is essential for uniformly good results although a mild in fection is not necessarily indicative of failure Grafts composed of the connective tissues frequently take in part or whole in the presence of slight infection.

Good hæmostasus is very essential for the rapid reëstablishment of circulation. A hæma

toma not only favors the development of inferton but also interferes with the early nutrition of the transplant by the permeating serum. The avoidance of traumatism to the transplant prevents necrosis of portions and lessens the danger of infection and the possibility of the formation of adhesions which may be highly desirable as in the case of transplanted tendons. Good approximation and suturing are necessary where early use is to be made of the part in order to secure the benefits of functional irritation. In case the transplant lies very near the surface the skin incision should be so placed as not to fall directly over it necrosis and infection are less ant to result Extensive scars should be extreed from a field if possible before transplantation into it because their poor blood supply is likely to interfere with the reestablishment of circulation in the graft A successful clinical result does not necessarily mean that all of the transplant in ed for as a rule more or less of it under

POES DECTORIS. The subsequent changes in the tissues when from a clinical standpoint transplantation has been a success are variable. The entire transplant may live and become united in its new position This is usually not the case but it is frequently seen in transplants consisting of fascia and tendons Part of the cells of the transplant may die while the rest live and hypertrophy forming new tissue which gradually absorbs and substitutes the necrotic portions. In bone with its periosteum and endosteum intact the bone cells of the compacta die but the periosteum and endosteum survive and form new bone which gradually replaces the dead portion Again the entire transplant may die and substitution occur by an ingrowth of like tissue from the surrounding portions as in the case of a successful heteroplastic tendon transplantation. The subsequent changes in a transplant which fails may be any one of the following

r There may be mamediate sloughing out from infection and death of the transplant

2 The transplant may heal in at first but after weeks e idences of mild infection develop and a fistula forms The infection usually in

creases until finally the transplant which has ded sloughs out or has to be removed 3 The transplant takes at first but its cells are slowly absorbed or replaced by connective

tissue

The fate of tissues transplanted into locations
where they have no function to perform, as for
instance bone or tendon into the subcutaneous

instance bone or tendon into the subcutant tissues, is usually that of gradual absorption

### SLIN TRANSPLANTATION

There has been little advance during recent to the field of usefulness of tran planted skin but as a result of the researches of Lexer our ideas as to the relatil e value of the different types of tran plants and of materials from different sources have been more definitely formulated. The type of graft indirated values according to the location of the area to be covered and as to whether or not a most able skin is desired Fudermal grafts cut according to the Theresh method are the most success ful and best suited for the great majority of cases. They may be cut in the largest lossible strips.

The preparation of the surface for receiving the grafts should vary according to the nature of the wound. If it is covered by healthy dry granulations the grafts may be applied directly with almost no preliminary curettage However if conditions are not just right and this includes the bulk of cases the entire surface should be curetted and careful harmostasis obtained before the grafts are applied The extravasated blood should be allowed to clot upon the surface after which firm pressure 1 applied with gauze and the clot 1 forced out. The leaves behind a cost of fibrin upon which the graft are applied and to which they adhere firmly The character of the dres ing is of little importance provided the opera tim is properly done and the grafts are not too much disturbed. In case the wound is located about the face and a movable kin is desired the result is best obtained by tran plantation of the entire thickness of the kin including the ubcutaneou fat Because I the rich blood up ly such tran plants take in the great may rity of cases Crafts including the entire thickness of the kin are more often ucces ful if the ubcu taneous fat i cut away y high can be done either at the time of or after their remo al However they are timbs bound down and are more untable for use about the han! to

The source 1 the mat rail is of much greater importance than was firm rit supposed according to Letter autorilating to Letter autorilating grafts are the only ones in which the equil rim is es and forms a permanent covering for the area.

Heterop a te tran i lantation is a failure. The grafts u ualh sough off horth after their application. Dut ha reported success with sain taken from young pure and Blanch and Forani with that from young chickens but Lexer says it remains alive and attached only for a bort time after which it acts a crut tunder which healing occurs but without the formation of any epithetial occurs from the tran plant.

Homoplastic tran plantation has been the subject of a great deal of discussion. Thierschearté l'inderlen and harg have maintained that it is unsuccessful while many others have reported success in a certain percentage of cases. J. S. Davi claims equally good results with autoplastic and homoplastic graft. In recent years Lever has performed a series of homoplastic tran plantations and has arrived at the following conclusions.

r Skin transplanted from one adult to another sloughs off in a short time

2 Skin from a parent brother or ister mix take temporarily but eventually loughs off

Skin from a feetus may take and remain adherent but undergoes necross and as substituted by the ingrowth of fibrous tissue from beneath The course of homopla tie grafts may be any one of the following.

t Acute necro-is with gangrene of the transplant This is a very common result

2 The grafts take at first but after one or two weeks are totally discarded with the forma

tion of a layer of pus and granulations beneath 3. The grafts take at first but after three or four weeks un ler, o necrost and dry gangerne forming a thin dry crust beneath which healing occurs by sear formation.

4 The grafts take and at the end of three or four weeks seem firmly fixed. Then areas of slight desquamation develop. Fibrous granula tions now grow in and substitute the tran planted ti sue without any appreciable amount being cast off In no case wa an epithchal covering for the area formed from the cells of the tran plant He explain the persistence of pi\_mentation when negro kin is tran planted on to a white man in the ground that while the cell are rapidly alssorbed the pigment remain and a removed very These tran plantations were controlled by microscopical examinations of excised portions which add con iderable to their value Oshima in Lexer's Clinic has recently reported upon the histological examination of homopla tic graft including the entire thickness of the kin both in man and in animal an I has found that while the grafts become attached and live for two or three weeks they eventually undergo necrosus an i either are absorbed or slough off

# MI COUS MEMBRANT TRANSPLANTATION

Conditions for access are not nearly so favor able in the transplantation of nucous membranes as they are in the trar plantation of skin. The application of a dressing is never possible and infection is very apt to occur because of exposed condution of the graft Rubbing against the opposing surface is inclined to produce duplacement and the lathing of the graft in a continuous secretion may cause it to float away. The only clinical was to far made of mucous membrane grafts has been with the squamous celled murous membrane of the mouth which has been successfully employed in the repair of has been successfully employed in the repair of

defects of the conjunctiva There had been little investigation made on the subject of the tran plantation of evaluations and columnar-celled mucous membrane until Lexit used successfully the vermilorm appendix from the same person for the renair of a defect in the urethra after the excusion of a stricture This has I een foll med by the work of Strel ler who used the appendix for the restoration of the urethra in cases of hypospadius Azhausen has studied the fate of the mucous membrane of the stomach and bladder in dogs in autoplastic homeplastic and heteroplastic tran plantations. The grafts included mucosa muscularis mucosa and submucosa which were tran planted on to the perstoneal surface over the stomach or I ladder where they were statched in place with catgut sutures They were examined from 14 to 70 days later Heteroplastic grafts from the rabbit were used four times with rapid death and absorption of the grafts in every case. In ten homoplastic tran plantations the grafts all died and became surrounded by granulation tissue \lisorption of the unithelial portion of the graft was rapid but the muscularis and connective tissue persisted for a much longer period giving to the transplant the appearance of an incompletely organized <car

In the autoplastic transplantations the results were quite different. The mucous membrane remained alive in all 16 experiments and possessed a marked tendency for proliferation leading to the formation of multiple cysts some of which in the two months old specimens reached the size of an egg In none of Axhausen's peci mens was mucous membrane transplanted into a location where it had a function to perform so that the influence of functional irritation upon the course of the transplant has not yet been tested experimentally. Not enough cases have been reported for one to judge as to the value of the mucous membrane of the appendix in the reprir of the urethra in operations for stricture and hypospadius However if such operations are attempted from Axhausen's experiments it noul i seem ade bable to rely only on the mucous membrane of the patient's appendix for the source of material

FAT TRANSPLANTATION

Because of its low devree of specialization and relatively poor blood supply fat would appear is be one of the easiest itsues in the body to tranplant successfully and the results, both of the operations in man and of experiments in animals, prove this to be the case

Tran plants of fat have long been used for fill ing out defects about the head, but it has been only within the last len years that their use has been extended to other regions of the body Experiments have been performed to determine the

fate of the different Linds of grafts

Autoplastic transplants, in both man and annuals, were studed in 1912 by Makkas He found that in a part of his experiments in which fat was transplanted into bony castiles practically the abole transplant took and became attacked but that later on there was proliferation and contracture of the interiobalist connective itsus. In the others there was considerable breaking down of fatty tsusse and marked thorease of the fibrous elements so that eventually in some cases the fat was largely replaced by sear itsuse.

Homoplastic tran plantations into the lumbar region of rabbits have been carefully studied by Rehn He found that they were easily injected and that the grafts frequently slou\_hedout despite the most careful asers: The majority tool and became attached to the surrounding tissues. Shrinkage wa noticed after the fourth week and continued until in the oldest experiment at the end of 24 week the use of the transplant had dumms hed one third Softening and small to t formation were noticed about the periphery of the grafts after the tenth week but the central portions appeared to be if anything somewhat firmer than normal Microscopically the interlobular connective tissue was seen to be hyper trophied in the younger specimens and trans formed into dense til r us tassie in the older ones, ge ing to the true plant an indurated character The fat of the fat cell gradually underwent necross brok us into globules and was either remo ed or collected into plands, which formed the oily cv t about the surface. The central portion of large tran plants also underwent necrosis I at 1 regenerated by the proliferating fat calls which urane and by other new cells which seem to come from the interlobular con nects e tissue. It is their fatty content is small but it gradually increases until at the end of 24 week the amount in each is more than half of the normal Giant-cells and pharocytes are seen actively ngaged in removing the broken down portions of the transplant. These expenments show that only a part of the transplant lives that its fibrous content is increased and that new fat is gradually formed to take the place of that which breaks down and is absorbed

Clinically fat has been successfully used by Rehn Czerny Neuber Lexer Bier and others for filling out defects about the face caused by inumes and infections resulting in destruction of hone and depressed scar formation as after frontal sinus and mastoid operations, depressed fractures etc The scar is dissected loose through a small incision and strips of fat from the abdominal wall stuffed into the defect In ophthal mology fat has been used to fill out the orbit after enucleation of the eye and according to Verderame with good results in Axenfeld's clinic for the past 15 years Barraquez, Mary and others have used fat to fill out the bulb of the eve after evisceration but according to Marx it does not remain alive because of the poor opportunity for the reestablishment of circulation connective-tissue substitution occurs The breast region has been filled out by the transplantation of a lipoma by Czerny Lever and others

In recent years the extensive use of fat from the abdominal or cluteal regions for filling out bone cavitles, the result of osteomy elitis, myeloid sarcoma bone cysts and tuberculosis has been reported by Makkas Klopfer Krabbel Rehn and others The diseased focus is thoroughly cleaned out and hamostasss is obtained before the fat is inserted the wound is closed without dramage The results have been variable ascritic wounds the transplant usually takes but where fistulæ are present sloughing out is the rule Bone very slowly takes the place of the fat in those cases which have been traced for some time after operation Fat behaves very much the same as a Morhof Mosetig plug with the one advantage that it may eventually be substituted by new bone. The use of a fat and fascia tran plant in arthroplasty in brain and dura defects and for surrounding sutured nerves and tendons will be spoken of under fascia tranplantation

### FRFF TENDON TRANSPLANTATION

Since the advent of modern surgery occasional attempts at the nepair of defects in the course of tendons by the free transplantation of tendon have been made. Gluck demon trated its feast body in 1883 and Heuck its practicability in 1893. However plastic operations upon tendons were performed chiefly by means of dead foreign materials such as silk catgut and silver vite mutil the recent researches of Kurschner Rehn until the recent researches of Kurschner Rehn.

and Lewis and Davis excited new interest in the subject of direct tendon transplantation and led to its more extensive application

The fate of transplanted tendon has been determined by the above-mentioned writers and most accurately by Lewis and Davis. The behavior of autoplastic and homoplastic grafts is very similar with the advantage in favor of the former so that they will be considered together A marked difference was found between tendon transplanted into the subcutaneous tissues and that which was transplanted and sutured into a tendonous defect where it was called upon to functionate The cells of the former retained their vitality and stained well but there was not a sign of proliferation to be seen After a number of days shrinkage into a small ball of tendonous tissue was the invariable result. This shrinkage is due to disuse analogous to the atrophy which occurs in a paralyzed limb On the other hand where the position of the transplant was such that it had a function to perform its cells not only remained alive but it rapidly increased in size and became united to the ends of the tendon. This increase in size was due to some extent to cedema of the transplant from imperfect circulation, but chiefly to a marked proliferation of the cells of the peritendenium externum and peritendenium in ternum forming a mantle surrounding and partitions throughout the transplant. There were some degenerative changes in the tendon, the fibrilla heing swollen and gnarled with small areas of hya line and granular changes These proliferative and regressive changes were most marked during the second to the fifth weeks, after which the tendon rapidly diminished in size and by the end of co days had practically returned to normal These two sets of experiments show the importance of functional irritation for the occurrence of hyper trophy rapid union and metamorphosis of the tran plant. Hence the necessity for careful and firm suturing and early use of the repaired tendon as emphasized particularly by Lever and Lewis and Davis

Clinically free transplantation of tendon has been used almost entirely for filling in defects in the course of the long flevors and extensors of the hand resulting either from accidents or phlegmons of the hand. Lever and Rehn have reported upon of the hand. Lever and Rehn have reported upon Easses treated in the Jena Clinic by this method. Tendon from the same individual used for homoplastic transplantation has not worked so well in man as in animals. A quadriceps tendon in a hace joint transplantation was repaired by homoplastic transplantation of the Archilles tendon with subsequent sloughing out of the tendon and

infection and loss of the limb. The transplants for the hand tendons are taken from the palmans longus through two small incisions above and below In case of the flevor tendon an incision should be made in the palm and its proximal end isolated and sutured to one end of the transplant Then the skin is undermined with an elevator clear to the finger tip where a second musion is made and a probe, with an eye at the end is carried back through the tunnel a ligature to which the free end of the transplant is fastened is threaded through it, and the tendon is then pulled into the tunnel, where it is fastened to the bone at its free end Early movement is begun and surprisingly good results have been obtained. as were shown by photographs accompanying the communication Kirschner prefers strips of fascia to free tendon transplants and claims that the fascia becomes transformed into tendon Lewis has used a fascial tube in the same way but has shown by examination of the excised por tion that it acts as a guide for tenoblasts which grow out from either end of the tendon and restore its continuity Under favorable conditions the fascia may be transformed into the tendon sheath

#### WASCIA TRANSPLANTATION

Kirschner in 1909 was the first to demonstrate the viability of transplanted free fascia, and since that time it has been used clinically in a great variety of conditions principally for the repair of defects in mesoblastic structures. The fate of autoplastic and homoplastic grafts in animals as shown by the studies of Kirstiner Lewis and Davis and J S Davis is approximately the same but Kirschner from an analysis of clinical results In a recent article gives a very decided preference to the autoplastic graft for use in human beings When transplanted into almost any tissue or on the wall of any aseptic cavity of the body the transplant lives and becomes united to the sur rounding tissues If m this new location it is not subjected to any movements or strain shrinkage and some connective tissue degenera tion occurs converting the fascia into a scar When transplanted into a defect where tension is thrown upon it the functional stimulation maintains its normal size or may even lead to hypertrophy The two sources of the material most often employed are the fascus lata of the thigh and the rectus abdominus sheath from which the fascia may be taken for use during abdominal operations

As to the undoubted uses to which transplanted fascia may be put there is still a great deal of doubt since most of the operations have been

performed in recent years and sufficient time has not yet elapsed in which to judge of their results Kirschner who seems to be championing its cause has recently published a comprehensive review of the subject and the extensive uses to which he puts it in the repair of defects and deformines in various parts of the body border well on the fantastic In repairing divided tendons he recom mends that, after suturing a cuff of fascia be applied about the line of suture in order to prevent the formation of adhesions Defects in the course of tendons may be repaired by a bridge of fascia which is folded about and sutured to the liberated ends as related in connection with ten don transplantation Kurschner reports some good and other bad results obtained by this method

mentions may be corrected by the transplantation of band of fascia which runs submissions of the properties of the face in case of facial nerve paralysis has been improved by an choring the region of the angle of the mouth to the sygonia. Kirischner recommends a band of facial new face of the properties of the proper

Kirschner recommends the use of fascial transplants for fination purposes in certain cases of fast-foot and other foot deformities and in habitual peronsus tendon patellar and shoulder dislocations. He has also made use of them for the fixation of organs, as in nephropezy and orthodopezy in cryptorchism but the advasability of resorting to any of these procedures seems dealership.

Fascal strips have been used to the around the pylorus for closure in case of gastro-enterostumy in which the diseased process has not produced a narrowing of the stomach outlet. Experiments by Bogaljuboff have shown that while this does not completely obstruct the lumen it produces more of a permanent constriction than anything else that has been tried. Wilma claims that this is due to the gradual airmlasge which the times the construction of the control of the produces are the controlled to the product of the control of the case with non absorbable ligatures such as silk and alver wire.

Thole Enderien Kinschner and others have used sheets of fascus for the repair of large ventral and occasionally of inguinal and femoral hernic and Pays for pairthing large defects in the particular theorem of the control of the con

the resophagus, stomach and intestines applied after perforation or resection by covering them over with living tissue. Senn first used omentum for this purpose in 1888 and since then it has been used frequently Konig has recently tested out both experimentally and clinically the value of fascia for this purpose and has obtained satis factory results Wound of the ureters have been repaired both clinically and experimentally by the use of fascia but the results have been unsatisfactory as stricture formation and hydronephrosis nearly always result Lewis and Davis have successfully used fascia for the renair of defects of the common bile duct in dogs A flap of fascia lata was sutured about either end of the divided duct and then into a tube Marked dila tation of the fascial tube occurred forming a sac about the size of a gall bladder but the duct remained patent

Delects of the dura resulting from compound fractures the removal of tumor of scars and addictions in epilepsy etc. have been repaired etches, and others with tran plants taken from the fasca lata. In epilepsy particularly a combined flat and fascat transplant has been given the preference. The results of this procedure are somewhat uncertain as yet.

Sutured nerves have been surrounded by a cuff of fascia and defects in their course have been bridged over with the idea of conducting the out growing fibers of the proximal end into the distal

portion

In the mobilization of ankylosed joints free and pedunculated flaps of various compositions have been placed between the end of the bones to prevent the recurrence of fibrous or bony union and to aid in the formation of a new joint cavity Of these agents which include fascia fat and fascia muscle and prepared animal membranes of various sorts fascial or fat and fascial flaps have proved to be the most satisfactory both in animal experiments such as those of Sumita and Allison and Brooks and in operations on man as shown by the results of Murphy Payr and many others According to Allison and Brooks there is no difference in behavior between a free and a pedunculated flap of fascia when placed between the ends of the bones In both instances the flap undergoes necrosis and absorption but by causing evudation and separating the ends of the bones for from two to four weeks, it permits of the formation of a fibrous coat over each end and a capsule partly re-forms leaving a joint cavity filled with a slightly bloody or serous fluid Without the implant less exudation occurs and

fibrous union between the bony ends results Heteroplastic substances interposed such as Cares le membrane chromacized pig a bladder etc. are more rapidly broken down cause much more reaction and exudation and stimulate an overproduction of connective tissue (or callus) from the ends of the bones resulting in a fibrous union which later on may ossify. On the other hand Sumita claims that while the free transplant breaks down and disappears nearly all of the pedunculated flap lives. The flap as a result of squeezing and crushing between the movable ends of the bones becomes ordematous and hæmorrhagic and undergoes hypertrophy in some portions and necrosis in others. All this leads eventually to the formation of one or sometimes more cavities in the transplant, the walls of which thin out and become attached to the ends of the bones and to the newly forming capsule and a new total is slowly formed. It is very similar to a ganglion in the structure of its walls and its mucoid contents Microscopically the wall consists of fibrous tissue without any endothelial lining However Murphy reports re-formation of a synovial lining in the joint of a dog operated on by him in this same manner Clinically the use of pedunculated flaps has been much oftener resorted to and has given the most satisfactory results

#### BOYE TRANSPLANTATION

It is in bone surgery that tissue transplantation has found its most extensive field of usefulness The feasibility of bone transplantation was first demonstrated by Ollier in 18,8 and it has been employed clinically with increasing frequency ever since During the past eight or ten years this increase has been particularly marked and the extensive statistics of Murphy Albee Lever Stressler and others testify to the satisfactory results which have been obtained Great interest has centered about the two points as to what the composition of the transplant should be and what is the fate of the transplanted bone. Ollier thought that when autoplastic bone plus periosteum and endosteum was transplanted into a bony defect where it had a function to perform the entire transplant lived and this view has been upheld in recent years by Macenen and Mc Williams although they offer little microscopical evidence in its support. In 1892 Barth claimed as a result of his experiments that the entire transplant died and underwent substitution by an ingrowth from the surrounding proliferation bone in other words the transplant acted merely as a scaffold Murphy now holds this view but he has offered no histological examinations in support of it. Barth has now rejected it in favor of the views of Axhausen who as a result of extensive experiments, concluded as follows

The periosteum and endosteum of the transplant remain alive while all of the bone cells except a few about the cortex undergo necrosis and absorption The periosteum and endosteum proliferate and produce callus which takes part in the formation of union between the ends of the transplant and the bone into which it is transplanted They also supply the cells which grow into the Haversian canals with their revasculari gation absorb the old bone and deposit new in its place Thus, eventually the dead cortex is substituted by new bone formed from the osteogenetic cells of the transplant which live When the periosteum is removed callous formation and substitution are both delayed because the chief source of osteogenesis from the transplant itself has been removed. Whatever substitution of the dead portion occurs from the transplant s own surviving cells then comes from the endosteum and the few surviving superficial cells of the cortex These views have practically been substantiated by the extensive histological studies of Fraugenheim Cotton and Loder and myself Thave found that even where both periosteal and endosteal surfaces were whittled away there is some callous formation on the ends of the transplant and although after 75 days absorptive changes predominated there was some slight substitution of the old cortex by bone that had formed from a few surviving cortical cells. In a transplant with periosteum and endosteum on it is quite plain that the callus formed at the two ends and the substitution which goes on within the dead cortex comes from the surviving cells of the transplant herause at the end of 40 or 50 days the amount of bony callus about the transplant is large and substitution is well under way while both inter mediary calluses at the ends are fibrous, thus rul me out completely the possibility of osteoconduc

tivity from the ends of the fragments The ingrowth of new bone from the ends or surrounding portion into which the transplant is placed which new bone substitutes the dead portion may occur if there are no osteogenetic cells on the transplant, as in case periosteum and endosteum are removed or die either as a result of infection or the cutting off of nutration by a sur rounding hamatoma However this is the exception, and the great bulk of the transformation which occurs in a transplant even with its peri esteum removed is accomplished by the activity of its own surviving osteogenetic cells

When bone is transplanted into the soft parts the conditions of nutrition are the same and the same portions survive or die as in transplants placed into bony defects. But regenerative and transformative changes are entirely different in accordance with Roux's law of functional uritation The bone in the soft parts has no function to perform hence it usually produces little or no new bone and is gradually absorbed or becomes encapsulated detached periosteum usually meets with the same fate. In my experiments with periosteum from the ulna transplanted into the thigh muscles nothing more than a millet seed sized mass of bone ever formed In McWilliams experiments with costal periosteum transplanted into the abdominal muscles extensive new bone for mation occurred in some cases It is a question if the abdominal respiratory movements may not serve as a functional irritant to such transplanted costal periosteum resulting in the new bone forma. That periosteum in its normal position possesses bone-forming properties has been demonstrated beyond a doubt by numerous work ers such as Cormi and Condray so that the claims

of Macewen are not to be taken senously The uses that have been made of transplanted bone are too well known to call for little more than enumeration Defects in the course of bones. the result of traumatism tumors, hone cysts etc may be filled in with a transplant of any dimen sions provided the conditions necessary for a successful transplantation are present has transplanted an entire bone, using a foot phalanx to take the place of finger phalanx excised for sarcoma Old ununited fractures are best treated by bone transplantation. The introduction of a medullary splint as used so extensively by Murphy is the best form of operative procedure although an external splint or the inlay method of Albee may also give good re-

Bone transplants may be used to produce ankylosis of joints or arthrodesis Lexer introduced this method for fixing the ankle-joint at right angles in cases of paralytic club foot, but according to the reports of Schewandin from Bier's Chnic it has not given as satisfactory tesults as those obtained by the Albert operation. Kanavel has used the same procedure for the production of ankylosis of the knee in cases of Charcot's joint in locomotor stama. The best form of transplant is one from the same person and containing both periosteum and endosteum Homoplastic transplants are successful but not as many of the osteogenetic cells remain alive and actively proliferate as in autoplastic grafts

Heteroplastic grafts behave in the same manner as dead bone

## MUSCLE TRANSPLANTATION

Free transplants of muscle regularly undergo degeneration as the cells are too highly differentrated to withstand the nutritional disturbances resulting from cutting off of the blood vascular circulation Muscle with everything severed except its nerve supply meets with the same fate The changes which occur in the dead transplant are variable. Usually absorption occurs rather rapidly but in other instances where necrosis occurs slowly some os ification of the area may

### NERVE TRANSPLANTATION

The nervous tissue of a transplanted nerve undergoes necrosis and absorption leaving the connective-tissue framework as the only surviving portion It serves as a conductor for the regener ating axis cylinders Hence the effect of a nerve graft 1 little different from that of a graft con sisting of fascia or vein and since autoplastic persegrafts are so difficult to obtain suture mate rials, portions of veins or tubes of fascia are used almost entirely in operations for the restoration of defects in the course of nerves

#### BLOOD-VESSEL TRANSPLANTATION

The perfection of a satisfactory technique for the suture of blood vessels by Carrell Guthrie Horsley and others has led to exten me studies on the transplantation of segments of one vessel into defects of another. The changes in such an artery or year transplanted into an arterial defect with its completely severed vascular and nervous connections are as follows

Union at the two end is by fibrous tissue formation with complete encapsulation of the sutures Gradual dilatation of the transplanted vessel occurs with thickening of its wall. This dilutation is more marked and occurs more rapidly with a venous than with an arterial tran plant. After a certain time the condition becomes stationary and a venous wall thickens relatively more than an arterial The mechanical functioning may remain good for an indefinite period even in the case of a venous tran plant. Live heteroplastic. cold storage and chemically fixed tran plants serve almost as well as autoplastic and homoplastic grafts The histological changes which the grafts undergo have been studied by Carrell Guthrie Borst Enderlen and others and are as follows

In the autoplastic and homoplastic grafts the

muscular and nervous elements undergo necrosis The connective-tissue elements very largely live and proliferate to some extent thus increasing the thickness of the vessel wall Muscle 13 gradually absorbed and substituted by connective tissue from the surrounding tissue the ends of the vessels and the surviving portion of the graft so that the vessel is gradually converted into a dilated fibrous tube. The endothelial liming of the transplant according to Borst and Enderlen dies and is replaced by an overgrowth past the lines of suture from the ends of the vessel The tissues of heteroplastic and chemically fixed transplants are gradually completely substituted by ingrowing connective tissue

The clinical application of vessel transplanta tion into vascular defects has been very limited. Goecke and Mantelli report the successful use of the suphenous vein for repairing defects of the popliteal and femoral arteries Blood vascular grafts have been used by Payr and others, in place of the Mikulicz s silver tube in an endeavor to establish a permanent connection between the lateral ventricle and the subdural space or the jugular vein for the drainage of hydrocephalus The operative mortality has been high and the result discouraging The long saphenous vein has been used by Malkas Tanton Unger and Becker to take the place of the urethra in hypospadius and stricture operations but with poor results

Wrede and others have used pieces of vein to repair defects in the course of nerves with the idea of obtaining an outgrowth of fibers along the lumen of the vessel

## PARATHLEOID TRANSPLANTATION

As soon as it was discovered that post-operative tetany was the result of the absence of parathyroid secretion attempts were made to cure it by the transplantation of parathyroids. This has led to a great deal of experimental work despite which and the meager clinical attempts there is still some degree of uncertainty as to the useful ness of parathyroid transplantation Cristiani Biedl Leighton and Swarts Leischner and others have studied experimentally the effects and course of both autoplastic and homoplastic transplantations in animals where parathyroid tissue was either normal deficient in amount or totally lacking It is agreed except for Habted that both homoplastic and autoplastic transplantations are successful the latter being more frequently so After total extripation of the parathyroids a permanent cure of the resulting tetany by the autoplastic or homoplastic transplantation of parathyroids has never been

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effected brief temporary relief has been obtained but the animals soon die of emacuation and tetany According to Halsted when the host has more According to maisted when the nost has more than one-half the normal amount of parathyroid tissue and where there is enough internal secretion so that there is no parathyroprivia neither autopla ue nor homoplastic grafts will take but they undergo necrost and absorption How out they undergo nectors and absorption alone ever if more than one-half or enough parathy rold tissue is removed so that there is deficient para thy rold secretion — but not complete absence the excised parathyroid ti-sue if reimplanted at the time will take and help either to cure or keen the animal alive for an indefinite period Halsted the annual universe an annual person granter claims that only one of any number of such transplanted prrathyroids in es and functionates If after sufficient time has elapsed for the graft to take the remaining parathyroid are exceed take the remaining parathytical are the the transplanted one may be sufficient to keep the animal alive for an indefinite period—15 months in one of Halsted's cases—and even free from symptoms of tetany during a greater part of the time He had no success with homoplastic

If Hal ted a results are correct they serve as a grafts in does good illustration of the importance of functional greed internation of the appointment of the contraction for the success of a transplant. Biedl obtained quite different results. He claimed to have succes ful transplantations in the presence of a normal amount of parathyroid secretion and also believed that several transplanted para thyroid may remain alive and that homoplastic transplantations are successful plantations have been made with about equal success into the thy roid ubcutaneous fat sheath of the rectu abdominus sphen and bone mar

The chnical results in post operative tetany in man obtained by transplantation of parathyroids always from another person have been variable There are more than a dozen uch cases on record in nearly all of which the parathyroids on one side had been removed in connection with lobec tomy for gotter. In most instances there were symptoms of mild chronic tetany and Von Eisele berg Krabbel Bose and Lorenz, and Danielsen have reported complete disappearance of symptoms in from a few weeks to months following the have obtained only partial relief in their operated cases

# THYROID GLAND TRANSPLANTATION

Transplantation of the thyroid gland is of less interest from a surgical standpoint because in case of thyroprivus from whatever cause much

better and more lasting results can almost always be obtained by organotherapy than by transplan

Von Liselsberg was the first to successfully tation of sland tissue transplant thyroid tissue and since then there have been a large number of workers who have made almost every possible variation as to the nature and location of the transplant The subcutaneous ussues rectus abdominous musde and perstoneum are fas orable stes for the tran plants tion Payr has transplanted into the spleen and kocher into the metaphysis of the upper end of the tibia but with no special advantage over the other locations The fate of the tran plant is

The graft becomes attached in its new location and blood vessels grow into its peripheral zone where the cell remain airs e and the follicles largewhere the centreman and and the ionicles largeupher) necrosis develops and about the center of the tran plant there i complete degeneration Proliferative changes then occur in the living peripheral zone and a considerable amount of new thyroid tissue is formed while the central portion becomes converted into a connectivetissue scar

Cristiani demonstrated that a transplant healed in and proliferated more quickly in a thyroprivic plantations have been much more successful than in a normal animal than homoplastic Transplanted thyroid trsue than homognaphic a tang handed engrous count functionates for a time but unfortunately in man macronates for a time out time years the transplant is absorbed and the thyroprisic symptoms reappear Payr Buscher and Enderlen and Bors have transplanted healthy thyroid tissue int nave transplanted nearthy tryrond transcriptors cretins with either no results or only temporar umprovement and a complete return of symptom anjaco eneme and a compacte recura or sympon after a few month or years Better results ca practically always be obtained by organothers? than by transplantation

Other glands and organ ha e been transplant with temporary success but uch tran plantation are of no surgical int rest

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BIANCHI AND TIORANI The Use of Chicken Skin Grafts
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Canzer 1 Results of the Transphantation of Blood
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et Histol J d I Anat et Physiol 1904 | 113 Corroy And Loder The F te of Bone Grafts

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STREESELER Über Lrethralplastik durch Freie Transplantationen des Wurmfortsatzes Arch f Ll n Chir

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ter der Greiche Greic

## ABSTRACTS OF CURRENT LITERATURE

## GENERAL SURGERY

## SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE
Plondks, F J: Preparatory and Post-Operative
Treatment J Lawer to 3 xx 1 685
By Sung Gyne: & Obst.

The author makes a ples for better and more through preparatory and post-operats treat ment of patients and regrets that the man of large sepanence who is most competent to administer and direct the treatment intelligently is usually so actively employed with operative and other work that he is often compelled to entrust the after care of his patients to indifferent inexpensenced or otherwise incompetent assistants, who in turn, are applied to the contrast the second of the patient of the contrast of the patient of the patient of the patient of the patient of the statement of the patient of the statement of the patient of the statement on the condition demands.

By preparation is not meant the old time method of starring and purping for a week beforehand, with consequent imperment of the patient's strength but a painstaining investigation of all the organisand functions of the body with appropriate treatment of any taulty conditions that may be found, postponing the operation if possible until the natient is fit.

The author recommends a restricted diet for two or three days before operation with the administration of a cathartic twenty four to thirty six hours

before operation Surgical shock is more easily prevented than cured and a close adherence to this theory gives better results than delerring treatment until symp The author recommends normal toms appear toms appear and animal recommenda homes ask hypodermoclysis before the operation is started, in those cases, in which there is a possibility of shock developing. In septic cases and where the operation has been prolonged proctoclysis by the drop method is begun one and a half hours after leaving the table In the use of these measures in over a thousand cases there has not been a single case of se ere shock. No stimulants are recommended. The ordinary post anaesthetic vomiting requires no treatment beyond rinsing the mouth absolute quiet and a hypoderime of mor phine if vomiting persists the use of a stomach tube is recommended. For gaseous distention the author recommends enemas change of position and the rectal tube. If unreheved turpestine stups or eserine saheylate are used. The best results have been obtained however by the use of 20 ccm. hormonal intravenously If this fails, operative procedures are recommended Acute dilatation of the stomach post-operative

Acute dilatation of the stomach post-operature andows and pneumonia are next discussed. The anodynes are recommended in post operative pain, and the author believes there is no valid objection to their judicious use for the first twenty from to forty eight hours

Envaro I. Conseil.

#### ARESTRETICS

Bubcock W W: The Dangers and Disadvantages of Spinal Ansesthesia. A I II J 913 zero, 897 By Surg Gynec & Obst

The author introduces his article with a consideration of the general question of the unconsones or safety of a given anexthetic and states that it is a relat ve matter. No method of anexthetia ayet discovered is free from dangers or unpleasant con sequences but as a standard for companion the universality of ether as a general anexthetic makes at a natural binus expensesce chinically with other methods being judged by equivalent statistics are not appeared to the property of the property

As to nutrous coade a recent demonstration of it in Babecch schune by an expert resulted in cot death from the anasthetic, one hempleps our cortical platy of the hand and forestra and one circumfiles palsy out of our cases aneathetized Compage to spinal anneathesia he has collected force cases in which there were i deaths He says many were handscaped posteries some had been given when the contract of the contract of the property of the contract of the contra

On norbidity the author collates statutes on nusses and vomiting albuminate, not operative pains duration of the anesthesia aftersards headache coular and other palses and concludes that nothing found lays more morbid results at the door of spinial amesthesia than of other On countons to be observed he emphasizes ascons of course repeated injections preventing the breaking of the seedle and on other points he comments on constrousers of the pattern moralis of the operating room mability to properly introduce the solution He recites experiences to illustrate the dangers advantages and disadvantages in the method with the following conclusions In his hands ether and spinal anasthesis have been about equally dan gerous in unstilled or careless hands the latter is undoubtedly more dangerous morbidity from spinal anzesthesia is less ocular palsies are due to faulty solutions lumbar to faulty injection neurotic symptoms are not more common than with ether maintenance of position for half an hour after injection is vital repeated injections are harmless Contra indications are circulatory subtension great depression of respiratory centers shock, collapse my ocarditis and intrathoracic effusions Operations in the upper abdomen are more dangerous than in the lower The newer methods of an esthesia pinal anæsthesia nitrous ovide-ovygen, intravenous ether should have their use restricted to selected cases and administration by qualified anæsthetists general indiscriminate use other remains the stand end FRANK II PRONTO

Cathcart E. P and Clark G II The Influence of Carbon Dioxide on the Heart in Varying Degrees of Americhesia J Phy of 9 3 1 u, 393 By Surg Gynec & Obst

Cathcart and Clark have carried out extensive exper me to on the effect of the administration of

varying mixtures of carbon dioxide and air to intact animil under varying degrees of anasthesia Several very instructive and important tracings are given and they summanize their results as follows

When the animal is lightly under the influence of ther—in all cases the animals are quite unconscious—the effects of the administration of carbon dounde by the respiratory tract produces with almost perfect regulantly a reduction in the rate and amplitude of the heart-beat. Whereas when the animal is deply under that is when the adcardiac constration is slightly affected there is atmost merely the slightest reduction in the rate and amplitude of the heart beat and at times none at all

The effect on the blood pressure of gwing carbon dounds was very marked in that a sharp rise of pressure of 30 to 40 mm. He occurred when the animal was lightly anesthetized but there was no rise of temperature when the animal was deeply under. It is to be noted that the carbon dioxide was administered for a very bird period only. The possibility that the observed reaction in the case of the animal lightly anrethetized was a protective phenomenon is not considered.

The work is good but the facts presented do not justify the practical conclusion that if anesthesia is to be carned out with any degree of safety it must be deep Wurren M Boorney

## SURGERY OF THE HEAD AND NECK

### HEAD

Mann R W and Loudon J Frontal Tumors.

Canad U Ass J 9 3 o62

By Surg Gynec & Ob t

The symptoms of frontal tumors are both general and local. The general symptoms are those refered between are those and acts owntime optic neutral vertiges and mental failure. The local symptoms of frontal tumors are rather cost mag as a rule. The tumor usually in olives one of the sil nt areas in the brain and often it is impossible to be tell plocate the nation of the tumor. In some cases there are notices also the contract of the contract tum morbud (sears atsonma unsomma amnessa titusons morbud (sears atsonma unsomma amnessa illusions hallurantsons deltasons etc.)

The varieties I tumors of the brain ar as follows I Ghoma chiefly found in the cortex pons or medulla, occurs chiefly in the middle aged or

2 Sarcomata arise from the meninge blood vessels, 7 bone they are the most common type in adults

3 Tuberculoms is chiefly basal and especially in the cerebellum it is by far the most common type in childhood

4 Gumma is mostly seen at the base of the

brain or brain axis it is very frequent in adults
5 Carcinoma is almost always secondary

6 Parasitic cysts

In connection with a general discussion of frontial tumors there is a report of a case of glooms of the night frontial lobe which came to autopsy. The personal and simply shories of the patient were negligible the initial symptoms were twitching of the patient was negligible the initial symptoms were twitching of the patient was a state of the state of t

Von Eiselaberg A and Ran! E Surgical Treatment of Tumors of the Brain and Spinal Cord (Dier de chrungsche Behandlung der Him und Ruckenmarkst moren) Arch f Him

Cl 9 3 cu 309
By Zentralbi i d ges Chir u i Grenzgeb
This is an exhaustive report of all the operations

of this Lind performed for the last twelve years at

the surgical chair in Vienna Detailed case histories are given and all failures reported Reports of opera tions on 168 cases of brain tumor show that of 75 cases of tumors of the cerebrum 25 died from the operation, 21 died later and there was no report from 5 of the 24 remaining ones, 9 recovered, 9 were im-proved and 5 were not improved. Of the 16 hy prophysectomies, 4 died soon after the operation from memants the rest were improved. Of the 32 cases operated on for tumors of the cerebellum 17 ded from the operation and 8 died later Of the re mainder 3 were cured a improved a not improved. Of the 17 tumors of the auditory nerve 13 died from the operation, and 3 were cured nothing is known of the other. Of the 28 palliative operations, 4 died soon after the operation 7 died later one being a suicide 12 were improved 5 not improved

If the examination shows a decrease in the coamisbility of the blood the patient is treated for several days with calcium lactate. The resistance of the cerebrosmoal fluid to infection is increased as much as possible by the giving of urotropine. The field of operation is injected with one-half per cent novo came-adrenalin solution less for its anesthetic effect than to present hemorrhage, ten minutes after the injection, a light ether anesthesia is begun. Large flaps of skin penosteum, and bone should be made to as to get a good view of the tumor

Hamorrhage from the bone is best controlled by driving in Tananese wooden negs. Bleeding from the soft parts that cannot be otherwise controlled s tamponed if hemorrhage has not stopped at the end of the operation a tampon of hving tissue fascia, and muscle is formed

Recently the operation has usually been carned out in two stages, the second being done eight or ten days after the first A cross-shaped mession is made in the dura in the opposite direction from that of the bone flap, and if there is any abnormality in the dura it should be excised until healthy tissue is reached the tumor is then removed as carefully as possible with a spatula and the finger Tampon and drainage should not be employed t is better to make a very careful primary suture of the dura and skin, as the danger i meningitis and fistula is there by decreased. If the dura is removed or there is difficulty to replacing the brain a plastic procedure may be carried out with fascia lata It is better to sacrifice the bone than to give up making a primary anture The 4 successful cases f plastic operation gt e no reason to believe that the presence of the fascia causes epileptic attacks

In operations on the cerebellum the bone is removed with Lane's forceps In discussing the causes of the high percentage of fadures, the relatively high percentage of cases of meningitis is noted, and thus is attributed partly to deficient technique and partly to poor hygienic conditions in the chaic The even more freque t cases of death from shock can be partly avoided by operation in three stages Reports of operations for 17 t mors of the spinal cord are 2 cases of death after the operation 3 deaths

later 3 cases cured 6 improved, 1 unimproved, and 2 lost sight of In 23 immnectomies for japanes spondy litts, and for the sake of performing Forster's section of the roots, 3 deaths resulted after the opera-tion 5 deaths later 9 improved, 4 unimproved. The technique consists of a one stage operation under anasthesia, after the injection of the field of opera tion with a novocame-adrenalin solution protropine and calcium are also given. The patients are placed in the left lateral position and after extensive removal of the vertebral arches the cerebrospinal fluid is allowed to escape slowly. The dura and skin are carefully autured, but no plaster cast is used.

Grey E G and Emerson, L. E. A Striking Acquirement of Visualizing Power and the Development of Dreams Following a Grebral Turnor Extirpation. J Am M As 19 3 ha, 4 By Sung Gynec & Obst

The authors review a case in which Cushing removed an endothehoms of the dura over the right parietal region The growth neighed 48 5 gm and at no place did it seem to invade the cortex. The patient had never been able to visualize and in order to recall the faces of even her father and mother she had to consult their photographs By a most tedious grand she could remember eight or mae lines of poetry or prose and then but for a short time The night of the day of the operation however she had a dream which consisted of mental images other visual dreams followed at first simple inter quite complex. A number of these dreams are recorded and some are psychologically analyzed. The morning following the operation she was able to make mental pictures of objects and persons in the room, a hitherto unknown faculty. Despite the fact that she had no visual memory or imagina tion prior to the operation her vision had always been good up to the beginning of her illness 15 months before the operation TORR W HARRER

Stetten D and Rosenbloom J Clinical and Vi tabolic Studies of a Case of Hypopitisinaism Du to Cyst of the Hypophysis with Infanti sm of the Lorain Type So-Called Typus Froeblich or Adiposo-Genital Dystrophy of Bartel 4m J V S 93 calv 73

By Surg Genec & Obst

The authors review th work done in studies of the hypophysis particularly as regards the metabolism of astrogen phosphorus, calcium magnes um and chlorine in acromegaly. It has been shown that the carbohydrate tolerance is in no way affected by injections of the extract of the anterior lobe at though a general rise in metabolism is noted after the injection. None of the other experimental work which has been done can be compared with this study of a case of perversion of the pituitary gland the case being a classical type of hypopituitanism the opposite of acromegaly. The condition was due to cyst of the hypophyst with progressive bitem

poral hemianopsia leading to optic atrophy and infantihism of the Lorain type. The patient was twenty two years of age. It was noticed when he was ten years old that he was not growing normally he complained of headaches which were severe his eves watered and he could not read from the black board at school

His eyeaight failed until he was practically blind physical development was retarded he was very stratable with no indication of sexual power there was no hair on his face axillæ or pubic region He was fairly well nounshed His chief complaints were blindness, headache and arrested development he being about the size of a nine or ten year old boy

Ossification of the bones of the hands correspond ed to about that of a ten year old boy as shown by the skingraph A skingraph of the skull showed an crosson of the dorsum of the sella turcica and of the posterior chinoid processes also an erosion of the posterior wall of the sphenoidal sinus

After administration of protroping and nasal irrigation a kanavel operation was done and a cyst whose contents was sterile was evacuated following this there was extradural infection with profuse discharge which seemed quite serious but the pa tient fully recovered Since leaving the hospital he has greatly improved he has no headache but his eyesight is not much changed on account of the al ready present ontic atrophy

A study of the metabolism results show a slight retention of nitrogen while the absorption of fat and protein was not influenced and the percentage of the various urinary constituents were no mal with the exception of neutral sulphur and undeter mined nitrogen, which are shown by the tables to be abnormally high

#### NECK

Calhson J G and MacKenty J E Tumors of the Carotid Body A S g Phila 9 3 1 1 740 By S rg Gynec & Obst

The author first considers the carotid body from a general anatomical, embryological and physio logical viewpoint as follows

A atomy When present - usually between 20 and 30 years - the body is found as a rule a little posterior to th bifurcation of the common aroud rtery and attached to either the internal or external branch by the 1 gament f Mayer through which it receives its blood supply. The nerve supply is from the v gus glossopharyngeal superior laryngeal and superior ce vical ympathetic

The structu e is alveolar and consists of groups of large rounded or polyhedral, epith loid cells closely adjacent to the endothelium of the capilla ; tufts called by the Germans Zell ballen

Embryof gy The view most generally upported is that of Zuckerkaudi that these bod es re d med from the sympathochromatin system sulage which buds off from the central nervous ystem in embryos of o to 30 millimeters S milar cells are

found in the medulia of the adrenals, pituitary body

and sympathetic ganglia

Physiology Its not constant presence the contradictory results of experimental work on blood pressure and lack of clinical observation indicate that whatever the function may be it is not im

In the authors case an Irishman at years old with a negative family and past history six weeks previous had noticed a hard tumor on the right side of the neck preceded by loss of weight and strength Three weeks later he began to complain of difficulty in breathing and swallowing aphonia. and nam in the throat

Examination showed on the right side of the neck a hard immovable board like tumor extending from the angle of the jaw to the clavicle and from the thyroid gland well into the posterior triangle with an absence of pulsation The throat showed paralysis of the right cord with the larvnx displaced to the left - Wassermann was negative

At operation an elastic lobular mass of reddish color was found so closely adherent to the common carotid artery veins and nerves of this region that complete removal was impossible. The portion anterior to the vessels however was dissected out and the wound closed with drainage After three weeks of infection and hamorrhages the patient

The pathological report showed typical findings of a tumor of the carotid body probably endothelioma but also diagnosed by competent men as carci noma sarcoma and endothelial sarcoma showing its complex structure

keen and Funke in 1906 collected 20 cases from the literature since then Callison and MacLenty have found at new cases reported

In these 60 cases 54 have come to operation of these 32 have recovered and 2 died In the 32 cases surviving 3 have had hemiplegia with aphasia 4 more or less dysphagia I constant cough s deviation of the tongue 4 eye symptoms and 4. more or less facial paralysis

The tumors are most common between 20 and to years of age and affect both sexes equally beyond this very little a known

The growths usually extend over a long period of time during which they behave as benign, giving they may tak on rapid growth and simulate a mildly malignant tumor except in a lack of anemia a d achexia. Their structure is various having been lassed with every form of malignant tumor

In the early stage xcept for deform ty there are no subjective symptoms Later there 1 aphonia d if cult swallow ng some cough and some pain in the throat

The objective symptoms are A firm elastic egg shaped mass under the sternomastoid movable laterally but not vertically with a transmitted pulsation but not expansile Later there is displacement of the laryng paralysis of the cords, congettion of the throat and irregular pupils with failure to react to light

failure to react to light

The differential diagnous is usually most diffi-

r Cervical lymph adenitis is usually multiple and surrounding tissues may be invaded. The subcutaneous tuberculin test and local reaction is positive.

2 In carcinoma there is a primary focus nodes are multiple and rapid growing and there is present cachezia and anismus.

3 In surcoma several nodes are involved there is no movement and no transmitted pulsation
4. Fibromata are more superficial harder and

more movable
5 Lipomata are more superficial have a woolly

feel and are very movable
6 Brachial cysts are as a rule congenital and

fluctuating
7 Hodgkin's disease is bilateral from the first
and gives multiple nodes

8 Ancuram has an expansile pulsation with a guighing mutmur over the tumor

o In syphilis there is a positive Wassermann and other evidences of the disease.

In closing, the authors recommend early entire removal if the tumor is not closely adherent to the vesels and other structures in this vicinity other use they advise leaving it alone. Some surgeons recommend removal of the common internal and external carothis.

PRILIPA M CARSE

Kraus, F: Pathology of the Thyrold the Parathyroids and the llypophysis and Their Murual Relations (Pathology der Schiddrigs der Beschilddrien, des Illmanhans und deren Wechsel withing) Deuts is ned If Sacci 19 3 zern, 132 By Zentralik Ld ges Chu u 1 Grangeb

In a paper read at the International Congress in Loudon the suther discussed the question of secretion in the thyroid and hypothysis. He again called attention to the storage of secretion in the thyroid and to the experiments of Gottleib Treads effects of blood from Basedow patients and thyroid extract shows the presence of a secretion with currantly. Trem a physiological standpoint soft-hyroid exercision. The effects of the property of the presence of a secretion with the property of the property of the presence of a secretion with the property of the presence of a secretion with the property of the property of the presence of a secretion with the property of t

Kram ontolers Bisection's decase a hyperthy you and helpes of that thus is the right conception of but thruls it is probable that there is not under opposition between hyper and dishyrous as a generally upposed. He regards the savolisement of the thymus adreasts and sexual glasses secondary. He gives the reasons for assuming that hyperfunction of the glandular ishe of the hypophysis is the cause of aeromegaly. Finally, is discusses the relations of the internal secretory

glands to the central and perspheral nervous systems, and assents that especially in Basedov's dessent set as a number of symptoms that are certainly of cerebral ongs and that cannot be attituded to the sympathetic system. He discusses the cornists on of the glands with intensal sceretion, and warns against assuming that the advental glands are the primary agent in all discusses with symptoms of pluriglandular disease. He calls attention to very limited, howledge on the subject and gives a systematic strangement of the diseases of the thyroid.

Mayo, C. H: Golter: The Relation of its Symptoms and Pathology Northwest Med pry 334 By Surg Gynec & Obst.

Certan physological facts concerning the thyrod are definitely known though its exact function is still an unsettled question. Absence of the thyrod in young animals, either naturel or expensional, markedly retards their mental and physical development and inhibits the maturity of ser. Total removal of the gland in the adult animal cases mental of physical deciroration, resulting in a condition sould physical deciroration, resulting in a condition yemptom-complex due to thyreoprius. Expermental hyperthyrodism has not proved successful, though certain symptoms of toxicinia are easily induced by feeding thyrodis.

Some cases of mild exophthalmus goater recover spontaneously others yield to careful hypemu treat ment which consists essentially of rest, quet, mild exercise in the open sur reduced nitrogenous due etc. Specific medication has been largely based us the assumption that the symptoms are due to the the summitted that the symptoms are due to the have been made to neutralize the town or to immirate the patient against its effects.

In relation to the surgical treatment of exophthal me goater of severe unionation, it must constantly be borne in mind that a chronic condution regularly persenting improvement followed by exacerbation of symptoms, at being dealt with In the severe cases grow my worse, operation must not be performed. These cases are for a time medical, and emergent surgery is not indicated.

To pre ent the possibility of tetany in operating on the thyroid the parathyroid glands must be avoided and priserved even if it be necessary to replace scodentally separated ones beneath the crossile of the thir roid at the roids of the gland

capsule of the thy root at the pole of the giand intrathoracte genters and deep substream gouters are of serious import and are found about once in forty operations f r simple gotter. Slight substread projections are much more frequent. The diagnoss rests on () dull area on percussion (s) the rottegen gram and (s) witheness of substread pressure.

Malgnant tumors of the thyroid are not numerous Less than one per cent of the cases operated on in our clame show malgnancy Both cancer and sarcuma occur the former with much more froquency. The diagnoss should if possible be made before the growth has penetrated the capsule and involved the neighboring structures for example the traches and muscles. The only treatment which affords any hope of rebef is free removal of the entree thy roul tissue

Baradulm G: The Morphological Composition of the Blood in Golter and Basedow's Disease and the Changes in It after Operation (Die morphologische Zusammenset ung de Blute be kropf und Basedow und de Ver nderung derselben nach der Operation) Chr a h I cliem sons 19 3 xux 639

By Zentrall I d ges Chr u 1 Grenageb
In 18 cases no of gotter and 8 of Basedow's
duesase the author made morphological examina
tions of the blood once before the operation and
fine or six times afterward, making an examination
enery second or third day until ten days after the
operation. The hemoglobin content was deter
mined as well as the number of the red and white
elfa both absolutely and relatively. He con-

1 In goiter without general symptoms there are no changes in hemoglobin and red blood cells while the white ones are also normal for the most part the lymphocytes may be somewhat increased as well as the mononuclears and transitional forms and in many cases there is also ecosmophias. There changes in the white cells were only found in

parenchymatous goster 2 In goster with general symptoms there was decrease in the hamoglobin content the red blood cells were normal or only a little decreased the number of whites was normal but there was a relative decrease of the polynuclears and an in crease of the lymphocytes and often of the mono nuclears are trans tion forms in many cases coston philis. These changes were more marked in three cases of Basedow's disease but the author could not like Kocher demonstrate a decrease of the total number of white cells in every case but found on the contrary an increase in many cases changes in the blood picture are more pronounced proliferating go to in parenchy matou they appear after the dministration of the roid substance he believes the through is a blood regulat ing organ After the operation there is a decrease in the hamoglobin and erythrocytes, which in the course of a few weeks return to normal The leu cocytes increase for the first few days the increase being in the polynuclears while the lymphocytes decrease and eosmophiles disappear

Capelle W and Bayer R The Thymus and the Thyroid and Their Mutual Relations to Basedow Disease (Thymus und Schilddruse in thren wechselseugen Ben hunge um Morbus Basedown) Beitr M CA 913 Inrus 509 By Zenirabli 6 d ges Chu u Grenggeb

The authors take as the basis of their discussion three of their own cases of primary thymectomy one of which died with acute symptoms of intoncation. This is of special importance for investigators of the thymus have attributed acute death after thy roid operations to dysthymus. One of the two remaining cases which was discussed in detail was a moderately severe case of Basedow & discuss with vagotrophical symptoms predominating which recovered three months after the operation. The authors found two cases in the interature those of Suserbruch and Haberer of thymectomy for strict indication in Basedow & discusse and 9 of gotter in abulated form. By testing the tonus of the vagus and sympathetic their aim is to learn more about the thymus in Basedow & disease.

Their discussion and conclusio 5 are purely theoretical and schematical. The chief fact that leads them to conclude that the thymacyclosis in Basedows discusses in that the lymphocytosis in the blood does not always disappear after the thyrond operation but it often remains and sometimes increases, the Basedows discusse however ocurble. A second resson for the authors assumptions of the control of the contro

From the theoretical schematical part of the work

it appears that the authors believe that both

thyroid and thyrmus secretions act upon the vague and sympathet, ch unt addirectal degrees sometimes the one sometimes the other predomanting sometimes both to the same extent. In the latter sometimes that the same continues the continues of cases the more active gland should be removed. They find some confirmation of their views in the histology of the two glands. Cylinder cell prolifer axion of the thyroid or epithelioid probleration in the thyraus stimulate the sympathetic while ecomophile cells in the thyraus stimulate the vague ecomophile cells in the thyraus stimulate the vague.

plashed by percussion and röntgen examination of the gland and by testing the irritability of the sympathetic nervous system when the sympathetic nervous system with the sympathetic nervous system that the sympathetic nervous system is a sympathetic nervous system to see that the sympathetic nervous system is sufficient to see that the sympathetic nervous system is sufficient to see that the sympathetic nervous system is sufficient to see that the sy

gland In conclusion the clinical diagnos s of

changes in the thymus is discussed it is accom-

Whon continuing his previously reported studies on the thyroid has recently revised the pathology of the thyroids from 1 sed patients operated on in the Mayo Chine for conditions ordunarly diagnosed as exophitalmic gotter from January 120 to Jan from 55 patients operated on in the same chine for conditions ordinarily diagnosed as supple gotter dur g the year 19 Bestdess studying the gross when the property of t

perimens he has made a detailed analysis of the histology of the slands in fixed tusing and tabul-tad and summarized the results of his study to deter mine the relationship of the pathology of the thyroid to the chinical condition of the natural. His conclusions are as follows

A detailed pathological study of fixed tissue preparations from 1 208 thyroids removed from preparations from 1 208 thyroids removed from patients whose condition would ordinarily have been diagnosed exophthalmic goiter showed that 79 per cent of the thyroids contained large areas of marked primary hypertrophy and hyperplasia A parallel clinical study has shown that for a period of three years all cases with true exorbithalm c guiter and from whom pland tustie was removed

fall into this list

2. In the above series of a 20% so-called excelled thalmic posters, pine sits so-called a mole posters or a total of 1 701 thyroids but a instances of marked primary hypertrophy and hyperplasia of the parenchyma have been noted in cases which did not show clinical ymptoms of true exophthalmic gotter. Three of these four patients were children

Twenty-one per cent of the 1 203 glands 3 Twenty-one per cent of the 1 203 grands tudied were either regenerations or adenomata Chincally while all of these were markedly toxic all were chronic and non of them would now be grouped clinically a true exophthalmic gotter

"4 By assuming that the symptoms of true exophthalmic gotter are the results of an excretion from the thursd gland and by attempting to deter mine the amount of uch excretion from the natholonged data one is able to estimate in a large sence of cases the chinical stage of the d sease with about to per cent of accuracy and the chuical seventy of the d sease with about 75 per cent of accuracy

the would therefore appear that the relation hip of primary hypertrophy and hyperplasia of the parenchyma of the thy rold gland to true exophthal mic potter is as direct and as constant as is primary inflammation of the kidney to the symptoms of

true Bright a d scare

Blackford J M and Sanford A H A Demon stration of a Depressor Substance in the Serum of the Blood of Patients Affected with Exophthalmic Golter is J M St. 911 cdvs 706 By Sung Gynec & Obst

D ring the past year the authors have conducted a sence of experiments with a view to throwing further light on the relation of the secretion of the thy roud to exophthalmic gotter. They have studied chiefly the cardiovascular effects on the dog of intravenous injections of sterile non hemolytic blood scrum from nervous individuals and from nationts affected with exophthalmic gotter Numer ous saline extracts of gotter ha e also been injected intravenously into dogs and the effects on the blood pressure studied

Gley in 1911 announced that the serum of certain cases of exophthalmic gotter produces marked cardiac depressor action He showed, too

that a first injection of notent exophthalms serum conferred a tolerance of such a nature that subquent injections of the same serum during the same experiment produced little or no effect

The authors have attempted to follow out Glev's researches, injecting intravenously into does the researches, injecting intra-tenously into dogs the serum procured from patients affected with exop-thalmic goiter. The effect on blood pressure was recorded graphically on a long paper kymograph in the usual manner using the left carolid artery for the arternal cannula. All injections were made into the right femoral vein. The right varie was exposed and stimulated by induction shock in certain experiments. Blood was obtained by sterile technique from the median basile sein of the nationis collected in sterile flasks and the serum allowed to senarate in the cold The manifest difficulty that must always be encountered in such work is the impracticability of obtaining a faree supply of blood from each case has somewhat his dered certain experiments but the authors believe that their results are sufficiently interesting to metric reporting

The authors used for these experiments the sera from as patients h ving exophthalmic gotter Other sera examined included those from normal individuals from patients having goiters without apparent intoxication and from patients presenting the picture of a long standing intoxication, pre sumably due to adenomate of the thyroid Only the sera from patients with active symptoms of exophthalmic gotter and with markedly hi perplastic glands as shown by microscopical examination produced in the dogs injected any definite symptoms of cardiovascular depression

The curves produced by the sera from patients affected with exophthalmic goiter have naturally fallen into a groups

1 Those sera causing more than 30 mm of Hg drop a blood pressure
2 Those era causing a drop in blood pressure

but less than 30 mm of Hg

a Those sera causing no appreciable drop in blood pressure The ignificance of the following classification was

observed aft r an analysis of the individual cases I Sax sero causing drops in blood pressure of more than 30 mm f Hg. The four curves in Chart I all of which produced drops in blood pressur of more than to mm of life when injected in doses of a 5 ccm per kilo dog weight were obtained by in ecting sera from patient who were at r near the height of an early and severe intoxication - hyperthyroidism

2 T s sera a s ng d opt in blood pressure of less than to mm f Rg. Chart 3 about the curves resulting from injections of six of these sera which caused a fall in blood pressure of less than 30 mm of Hg but which apparently contained a slight amount of the depressor agent. Eight of these ten patients had been afflicted with the disease for more than a year and none of them seemed near a y

marked exacerbation. In general it may be stated that these cases were of longer standing and with more pronounced intoxication than those in the following group.

3 The teen sera causing no app estable drop in blood p essure one of the patients seemed to be near a crisis and eight of them had been sick less

than nine months

These experiments seem to indicate that patients affected with explinhalming golder who are suffering from a marked degree of intoxication at or near the height of the clinical curve of the disease possesserum which has a powerful depressor action. The authors have failed to demonstrate this depressor action by similar means in normal series or in series from patients such swing markedly, hyperplastic thy mods. Also series from patients with exophitude mice gouter not at or near the crest of the water of micogration are less potent or may be entirely in series.

Since it was not always thought best to bleed very such pattents only a small number of experi ments have been made with sera from patients with severe iniciacitions. Yet it may be of i terest to know that most of the patients that were bleed experimence considerable ruled from thurs subjective experimence considerable ruled from thurs subjective verous supertions, into dogs, of asline extract of on conters of various lands from human patients

have also been reported

nave also been reported.

Experiments with extracts of 48 evophthalmic thyroids have shown that the markedly hyperplastic gottens considered typical of Groves of decase has a more powerful depressor act on that that of the marked of any normal organ examined including contract of any normal organ examined including the contract of any normal organ examined including the contract of the contract

uooge n is any ses toan 2 mm.
Extracts of adenomata of the thyroid of ample
colloid gotters and f normal thyroids likewas
have a depressor action which however has not
been found so marked as that produced by extract
of exophthalmic thyror is Injections equi alent
to as much as 1 gm pe kilo dog weight do not cause
a fall as great as that of the extracts f exophthalmic

go ters a doses of o gm pe kilo dog weight.

The first injection i any extract i firesh goiter as of most extracts of itsue confers a marked d gree i tolerance t subsequent njections of the same maternal during the same maternal during the same maternal during the same maternal.

As is well known by prior solutions cause a market fall in blood pressure on milter your aprecianal subsequent injection how that a tolerance has been established similar! that produced by extracts from gotters. The depressor action of perplone of too not haver fleeted by a previous dose of the extra t of exophthalmic gotter nor is the action of the tract of exophthalmic gotter affected by a previous dose of perpone solin too. On the other hand it in interest is to not that the depressor action of the extract of an exophthalmuc goter is much diminished by a previous dose of potent verim from a case of touc exophthalmuc goter and the reverse updring from a limited number of experiments is equally, true the other word, a crossed tolerance seems to exist between the depressor action of extract of exoph tolerance probable therefore that the depressor agent in the extract of exophthalmuc thyroid and that in the serum from a case of exophthalmuc goter are

of the same nature
of attempt has yet been made to identify the
chemical nature of the depressor substances in these
extracts of thyroids or of those in sera of platents
affected with exophthalme gotter. From certain
experimental evidence it eems that the sub tance
is neither choin nor ordinary peptone.

The authors believe that the work submitted

justifies the following conclusions

1 Fresh extracts made from exophthalmic thyroids contain a powerful depressor substance 2 A powerful depressor substance likewice exists in the sera obtained from certain cases of exophthalmic souter

3 The latter substance s present in direct proportion to the chincal acuteness and severity of the disease.

ancase

4 Th sera from patients with non hyperplastic thyro ds do not ha e a depressor act in liter in active depressor dose of the serum from a c se of exophthalmic goater the depressor action

of the extract of an exophthalmic gotter is weakened or abolished the converse is also true George G B may

Tunberg A Experimental Study of the Physical Colory of the Parathyrold Glands Expectally The r R lation to the Physical (Taperment II U tersuch ge be die Physical Congression of the Physical Charles of the Physical Charles

B) Ze ir lbl f d ges Ch (renzgeb Pa ath) roidect my in cats causes symptoms of

acute tetany if a sud centh; large number of glands are removed. Und r some circumstances the re mo all of three parathyroids causes a chromic tetany which develops after a latent period of three to four months free from symptom. The symptoms are stiffness of the musicles twitching trenor increased rell zes emacation albuminuma and often darrhera. This condition remains for some time is changed without any marked alteration in the general h lift of the animal but a uniform and continuous increases in the severity of the symptom may be otted. After three to sur month the animal

The diet is undoubtedly of great influence for an exclus e meat diet hastens the development of the disease while a milk duet has a curative effect and improvement takes place after the feeding of para thyroid substance A total thyroidectomy is fol

dies with tetanic convulsions

lowed by chronic symptoms such as spathy indolence and a fall in temperature of from z to 126 C. Cats deprived of the thyrold may hye several months without showing signs of tetany even when they are fed exclusively on meat. Small remants of themid left behind may develop through hypertrophy into very compact tissue which offers some points of resemblance to parathy roids. The paratharm is themselves do not chance in structure even when exchesis lasts for several years Faclu are meat diet causes a marked hypertrophy

of the thi road. This does not take place when there is at the same time insufficiency of the parathyrode even though the latter may cause no visible chimeal symptoms. If marked hypertmohy already and as a result of exclusive meat diet it disappears after the extirpation of a sufficiently great number of parathyroids. In chronic tetany the thyroid seems to strophy in spate of ment diet. The experiments though different in function have a mutual effect upon one another directly or indirectly \usag

## SURGERY OF THE CHEST

## CUPER WATE AND REPART

Roldwin J P : Sarroma of th Chest Walt 

Basch uses a grain doses of carmin mixed with a teremontal of water as a simple harmless reliable and convenient means for the demarration of stools. the estimation of gastro intestinal motility and putency f r the detection of fi tulous commu ica with other hollow organs for the location of the di tal end of a duodenal tube and to aid in the differentiation between resophageal discrilculum and distation. With the more universal employ ment of this method no doubt further fields will suppost themselves

Hahn B: Treatment of Acut Pleural Empyema (Zur Behnélung des ak ten Ileurampyem) Desirche wed II & ch. 1013 x 2 550 By Zeatralbi i d ges Chr. u i Crenzgeb,

The author discusses in this wirk the question of whether the most rational treatment f pleural emments is radical resection of the ribs or conserva the puncture and a piration of the pus, as described by Hulau Because of his favorable results in 25 cases the author grees the preference to the latter vantages uch a greater operative danger expe-civily from too quick decrease in pressure and post operative pneumothorix to avoid which a complicated apparatus is recessary

Belliu's drain ge offers several ad antager includ og less operative danger and avoidance of nost-operative pneumothorar. The emptying out of the pus and the re-e pan ion of the lung can be furthered in the operation by the use of a suitable suction apparatus

In the 25 cases treated by the author he followed Schreiber's proposal to connect the Nelaton catheter with a Potain's apparatus. The results were favorable In 20 of the 25 cases 80 per cent the recovery was complete 3 patients 22 per cent were not cured and 2 patients 8 per cent died The shortest duration of treatment was three

days in a case following pneumonia in a 1 year-old child. The longest time was 55 days the average the treatment was considered closed with the removal of the drain and that two cases were tion of treatment -one a case in which there was an intercurrent scarlet fever and in which recovers took 124 day and one a case that left the bountal without recovery after so days and in which the fistula was reported closed four weeks later

Among the 15 cases there were o children aged from 2 to 7 years. The empsema in the majority of the cases followed pneumonia.

In co clusion the author gives a short tabulated resume of his cases together with some statistics in regard to operative cases of empyema from which it acems that the results in the latter are more unfave ral le as to recovery mortality and average luration of treatment

#### TRACTICA AND LUNGS

Gros. F and Rehfuss, M E.: Radiography in Pulmonary Gangrene Med Rec 913 lxxnr 1050 By Surg Gynec & Obst

Gros and R blus report a case in which they had autorsy proof The fluoroscope revealed a central transparent sh dow about the size of a silver half dollar surrounded by an irregular opacity Clinically when the patient coughed a di tinct and marked ly blowing sound almost like amphone breathing but more acute and whi tling in character could be heard just outside and above the apex best This sound which was heard only dun g cough, was distinctly gurgling and confined to one spot Examination of the putum revealed bloody mucopurule t sputum no tubercle bacili many gram-positi e d plococci and streptococci. The autopsy revealed a large infiltrating gangrenous cavity which was found to communicate with the bronchus There were two other arregular cavities which had passed unseen in the midst of the hepatized hing Radiographs showed not only the cavity and in filtrated tusue seen on the screen but also traced an exact shadow of the cavities or multiple gan grenous foci seen at autopsy

The authors believe that this case demonstrates the value of radioscopy in accurately locating and showing the early infiltration and cavity formation and the value of the radiograph in demonstrating the multiple foct of pulmonary gangrene which could not be perceived by radioscopical examination. COW H SERVER

## SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITOREUM The Selection of the Incision in

Pann tt D A Colletoms Poc Roy Soc Ved 93 V1 Surg By Surg Cynec & Obst.

The prevention of bad after effects of opening the abdominal cavity can only be accomplished if the following precautions are taken (1) to nerves must be permanently damaged and (2) wounds in the muscle and aponeurosis must unite by firm nar row scars which are so situated that they are not subjected to undue cross tension which will result in their stretching. That these requirements are not filled by the ordinary incision is shown by the author following an examination of a number of

Incision in the linea alba is very commonly fol lowed by stretching of the scar and separation of the two rects when the wound has been made below the umbilicu In nession splitting the rectus fibers is often followed by paralysis of the part of the rectus which has medial to the inci ion. Incision in the linea semilunaris is often followed by extensive paralysis of the rectus Lateral rectus sheath in cision where the rectus is pulled mesially is also complicated according to the author by many M Burney's subsequent paralyses of the rectus incision oblique lumbar incision and vertical in cision lateral to the lin a semilunaris all are complicated by more or less paralysis of the muscles

supplied by the nerves severed by the incision The explanation of the foregoing observations is said to lie in the anatomical relation of the perve supply to the different muscles affected and also in supply to the arrent measures anceten and any in the fact that poor healing takes place where the blood supply is inferior as for example in the linea semilimans. The erves supplying the rectus come from the sixth t the twelfth dorval and these nerves run obliquely though the outer part of the rectus sheath into the rectus muscle

The incisio s wh h the author recommends are the following (1) Wherever possible a paramedian meision should be employed made through the anterior sheath of the rectus near the med an line the rectus with its nerves be g pulled outward and the incision completed through the posterior sheath of the rectus ( ) Kocher s incision for reaching the gall bladder is recommended. This incision is placed in two ways. One way is to make an incision parallel to the costal margin retracting the nerves out of the way the second method is to make a long medial incision with a transverse incision extending outward from the lower end of the medial one I II SAILES

Reich iderfer L. H: Postural Treatment of Post Operative Abdominal Adhesions Sure b Obst 1913 XV1 755 By Surg Gynec & Obst

The author proposes a method of treating re current post operative abdominal adhesions which so far as he knows is original. It is based upon his belief that in certain cases these adhesions will re form even after repeated careful operations with or without the use of salt solution sterile oil cargile membrane or other method of treatment Most of the disabling pain which these cases suffer while standing is due to constant pulling on the sensitive panetal peritoneum, the author assuming the impossibility of always obtaining an anatomical cure endeavors to secure relief by having the ad hesions re form in such a position as to obviate the perstoneal traction with its resulting discomfort

To this end he advises breaking up all adhesions as thoroughly as possible paying especial attention to the panetal pentoneum the abdomen is filled with salt solution closed carefully with both tier and stay sutures, and a snug binder applied With in a few hours after reaction the patient is placed in a sitting position and kept there constantly. being allowed to sit up in a chair in a couple of days and encouraged to walk about as much as possible, so that the abdominal contents will ad just themselves at the lowest possible level while adhest as are reforming thus minimizing subsequent peritoneal tension while the body is erect The salt solution will tend to keep the raw surfaces apart until the patient can be placed in the upright pos tion

The author cites the case of a woman who for three years was in hospitals for periods aggregating 250 days and underwent six operations for abdominal pain due to adhesions and who was completely relieved by the method described

Clogg, H. S Inguinal Herma in the Child Cl 9 3 xlu 465 By Surg Gynec & Obst

Inguinal herma in the child the author believes is always dependent upon a development error the sac of the herma being the processus vaginalis in whole or part. The herma descends the whole length of the canal and is therefore of the oblique or indirect variety. The failure of this processus vaginalis to undergo normal development accounts for all inguinal hermas in childhood. He believes that weakness of the abdominal muscles and some increased intra abdominal pressure have very little to do with inguinal hernia in children

In the male two types of herma are recogmized (1) The sac is the complete processus vaginalis the complete sac - and extends to the bottom of the scrotum having the testicle project into it posteriorly (2) The lower part of the processus vaginalis has become separated - the upper part only remaining in communication with the peritoneum - the incomplete sac. The size of the incomplete sac will vary considerably depending on the site at which it has been naturally obliterated

The diagnosis is considered from two stand points (1) The history of a swelling which has been seen and has disappeared and cannot be seen when the child is brought for examination and (2) a swelling which is present. In regard to the former glands appearing suddenly hydroceles, excessive pubic fat and a movable testicle must be differ entiated. In regard to the latter it is easy to deter mine that the swelling comes from the abdomen by being unable to detect the cord free from the swelling

The author considers the treatment under two headings Truss and operative The only value in the truss is in restraining the descent of the hernia, thus allowing nature to proceed with normal development. A truss may act indirectly in the cure of a hernia During the first few months the author advises a truss solely with the object of restraining the herma. This treatment he continues to about the fourth or sixth month if a child is under observation after the fourth or sixth month of life and is healthy operation is advised. In special circumstances e g a large herma which cannot be controlled by a truss or a herma which is frequently coming down and causing difficulty in reduction operation will have to be undertaken at an earlier age

The cacum is frequently hermated in children and must be treated carefully Appendicitis in the hermal sac occurs in children — about 25 per cent of the cases reported being found in children. Rarely the pelvic colon escapes through the ring on the left side although the bladder also may occupy the hermal sac. The treatment consists in carefully separating the portion of the bladder and allowing it to return into the abdomen The ovary and tube are frequent contents of the hermal sac in the child The treatment consists in carefully separating the organs and replacing them Torsion of the pedicle may be a complication and in some cases removal of the ovary is necessary Strangu lation requires immediate operation and the com plications arising should be carefully treated

WALTER I WINHOUT

The conclusions reached in this paper were developed as a result of observations first made upon children who had strangulated herma which had been reduced without operation, permanent sponts neous cures resulting by simply keeping the children in bed with the foot of the bed elevated for a short time, at the same time overcoming the abnormal abdominal pressure by careful dieting and medica-tion. Children having herma who were tirrumcased for phamosas were observed to undergo spontaneous cure of their bermæ also while resting under medical care

A study of statistics in the literature shows that hermas in children are much less frequently found between the ages of six and thirteen and that if no new hermie were formed between the ages of six and thirteen 73 per cent of all bernie in children at six years of age would have healed spontaneously

by the age of thirteen The causes of hernize in children are (i) Non closure of the inguinal canal (2) congenital separation or weakness of structures surrounding the inguinal femoral or umbilical opening frequently hereditary (3) shormal length of mesentery and omentum (4) shormal intra shommal pressure due to (a) faulty nutrition, (b) to constipation (c) to phimosas (d) to coughing (e) to vomiting, (f) to crying and straining (g) to traumatism and

(h) to overevertion About 5 per cent of cases should be operated upon the indications are (c) strangulated hernix (b) irreducible herms due to adhesions (c) an un usually large opening in a free hernia especially if the condition is hereditary (d) reducible hydrotele (e) undescended testicles unless there is a tendency toward spontaneous cure The remaining 05 per cent will heal if the exciting cause has been removed.

The recumbent position with the foot of the bed elevated is a great aid in the after treatment of operative cases as well as in the management of

them without operation

The truss treatment is a valuable aid and is to be used in conjunction with attempts to relieve the abnormal intra abdominal pressure by dieting, When the relief of constinution phimosis etc child cannot be kept in bed a well fitting truss should be worn night and day for at least six months, or until there is no protrusion of herma FLOVO B RILEY

## GASTRO INTESTINAL TRACT

Rosenow E C The Production of Ulcer of the Stomach by Injection of Streptococci JA M A: 9 3 km 947 By Surg Gynec & Obst.

Hamorrhages superficial erosions, and definite ulceration of the mucous membrane of the stomach and duodenum occur not infrequently during severe infections in man and in experimentally infected or otherwise severely intoxicated animals In some of these instances there can be no question but that infection plays a rôle in the etiology of ulcer

The author has produced ulcer of the stomach or duodenum or both by intrave ous injection of certain streptococci in eightee rabbits, six dogs, and one monkey He found that streptococci of marked virulence or streptococci of very low viru

lence both failed to produce ulceration while a streptococcus of moderate activity seemed to produce ulceration most frequently. He believes that the ulceration : due to a localized infection and secondary digestion. The ulcers are usually single and deep with marked tendency to hamorrhage and perforation and resemble the human gastric ulcer in many respects

The streptococca which produced the lessons were originally obtained from human tonsils From the similarity of the lesions produced to those which occur in man from the fact that ulceration takes place in the absence of a generalized infection and from the arrow of the streptococcus in question it seems reasonable to suppose that ulcer of the stomach and duodenum arises from an infectious Drocess I IL SKILES

Carman R D: The Röntgen Ray as an Ald in the Diagnosis of Gastric Cancer and Ulcer J In-Diagnosis of Crimes VI. 485
dia St M Att 9 3 VI. 485
By Surg Gynec & Obst

The author quotes from a recent paper by W I Mano in which it was stated that the signs and symptoms of gastric cancer could be arranged in the following order with respect to value (1) The presence of a palpable tumor in 67 per cent (2) food remnants in 53 3 per cent and (3) the rontgen

ray signs Carman states that the work of the last few months at the Mayo Clinic has necessitated a change in the order of importance of these signs, the \ ray now taking first place with diagnostic signs of can

cer in 93 per cent of the cases In gastric ulcer the radiological diagnosis is somewhat less certain but even here approximately 64

per cent show diagnostic signs and this percentage will probably be materially increased in the future The technique employed is the double meal meth-od of Haudek both fluoroscopy and radiography

ber grused The radiological a gus of carcinoma of the stomach e arranges in the order of their relative value as follows

r Filling defects

Altered pylonic function (a) Gap: g of the pylorus (b) Obstruct on of the pylorus

3 Ad anced position of the six hour meal 4 Absence of penstals from avolved areas of

the wall of the stomach Diminished mobility loss of flexibility

Diminution in size of the stomach

Ant penatalsia

The filling defect a sign of cardinal import and practically indispensable in the rontgen ray diag nosis of carcinoma. It is occasioned by the pronoise or carefulnia in a constant by the first pection of the tumor mas into the hume of the atomach. True filling defect mu t be carefully differentiated from inde tations of the will f the stomach by a gas filled colon by adjacent extrinsic tumors and by pa m I lipation during the screen examination assists materially in determining the actuality and permanence of filling defects Alteration of pylonic function is an almost invariable accommaniment of gastric cancer either free and continuous patency or obstruction. Loss of flexi bility of the stomach by infiltration of its walls is important Antipenstalsis is sometimes seen in

association with pylone obstruction.

The radiological aigns of gastine ulcer may be classified in two groups (1) Those which are cardi nal and more or less pathognomical (2) those which

are merely suggestive.

The cardinal signs are as follows \ isualization of the bismuth filled crater of a callous ulcer -- the nischen symptom

The diverticulum of perforating ulcer

The incisura

Signs which are not determinative but merely suggestive of ulcer include I Acute fishhook form of the stomach with dis-

placement to the left and down

2 Delayed opening of the pylorus 3 Localized pressure-tender point on the lesser curvature

4 Residue in the stomach after six hours

Lessened mobility

Settling of the bismuth to the lower pole of the stomach such as is seen in hypotonicity or atomy A bud like projection from the contour of the

bismuth filled stomach corresponding to the crater of a callous ulcer is a definite and valuable sign not imitated at least closely by any other condition The diverticulum of perforating ulcer is cuite as characteristic The perforation may be anterior into the liver or posterior into the pincreas and a continuation of the ulcerative process results in an excavation which when filled with bismuth often shows a walnut used more or less spherical outline with a layer of bismuth surmounted by a layer of fluid a d capped by an air bubble. The incisura is an indentate n of the greater curvature usually in the ertical port on of the stomach of varying width and d pth. An incisura must be differen trated from a penstaltic wave and from transient reflex spasms

In conclusion Carman states that the rontgen ray simply furnishe valuable contributory evidence as to the presence a d nature of ga the lesions — so valuable that whenever available it should be employed in the ge eral routine-but the final judg employer in the general routiner—out that a nat pany ment should take into account all the evidence of e ery sort. If ce the radiologist should be not only a radiograph but a clinician to the utmost of his ability able! follow his cases to the operating table a il take his r ghtful share of responsibility

ALBERT MILLER

Stockt n C G Pyloric Spasm C nad M Ass 43 By S rg Gynee & Obst. The cause of pylonic spasm is an over spasticity

of the sphincter muscle either inherent in the muscle itself or communicated to it through its nerve supply. A high degree of hydrochlone and may so prolong the duodenal reflex which closes the forus as to produce a resultant spasm. It is evident that when duodenal ulcer or cancer or duodenitis is present the pylone spasm will be much more marked owing to the increased irritability of the affected parts to the hydrochione and But there are other causes of pylone spasm author has seen it occur in case of stone in the blad der uterine retrodisplacement and in nephritis It may occur in eye strain psycha thenia and in nervous shock.

The symptoms vary greatly in intensity gaseous or acid emetations being the most common symptoms. Often there is a hurning pain or feeling of distress in the empastrum The hunger pain so frequently associated with ulcer is attributed by the author to a spasm of the palorus. There

may be a definite mass palpable

The treatment of pylone pram should be directed at the cau stine factors. This may mean some perative interference e g an annendix or gall bladder operation. The rebel of the pylone spasm can often be accomplished through the a immistra tion of alkalies with possibly the addition of a sedition. I II SERES

Einhorn M: Further l'aperiences with Stretching the Pyloru Am J M Sr 913 cal : 837 By Surg Gyner & Obst

The author briefly reviews the old cases showing that the pylorus can be stretched by way of the mouth and reports twenty one new cases Among them 8 had a real stenous and 11 had pylorusnasm of varying severity no mishap occurred and the results as a whole were very good. The pains subsaded and the rschochymn or hypersecretion if present decreased or disappeared

The differentiation between benign stenous and pylorospasm is best made by measuring the pylorus in pylorospasm No so to 60 l can be passed through the pylorus while in real stenous No 40 is about the largest that can be passed. Indications for stretching the pylorus are (1) All cases of spasm provided there is no fresh ulcer in the lm mediate vicinity (2) Benign stenosis may be stretched also with the same exceptions as given above (3) Advanced benign structures which cannot be operated either on account of some great underlying danger or when the patient refuses operation The author's method of stretching is not antagonistic to surgery but works band in hand II A Ports with it

Zweifel Intestinal Fiatules and Their Treat ment (Über Darmfutch and ihre Behandlung) Zestriellé 70, 28 y xxxxx, 402 By Zestraibl f d ges Gwaik u Gebutth s d Grensgeb

After opening an abscess following appendicitis an intestinal fistula appeared and as it did not close pontaneously it was operated on in two stages as follows

r Median lanaratomy and lateral entern-anothemosis was done between the last cod of the fleum and the transverse colon The part of the intestine thus excluded with the vermiform amends and the escending colon was closed and as far as nomble invaginated

a After the nationt had recovered an increase was made around the fistula the excluded part of the intestine was separated step by step from the mesocolon and extirpated in tolo. The patient re-

covered but foul melling our was still discharged

Turck R C Intestinal Resection Sucreeful Removal of More Th n Tw Ive Feet of Bowel With Observations on the Subsequent Metabolism Tr S th Surg & Gyace 4st Atlanta,

Turck reports the successful removal of ten feet and ten a d three quarters inches of ileum together with the cocum ascending colon, and part of the transverse colon because of dense adhesions, numerous partial obstructions facal fistula and multiple sinuses. The work which was done in three stares was followed by serious metabolical disturbances and d arrhera

Studies of the metabolical processes eight months after the ilcum resection showed that a probable compensatory hyperplasm of intestine with consequent compensatory production of enterolinase had taken place enough with a regulated diet, to thoroughly digest and as imilate carbohydrates and a moderate amount of fats, but not enough to fully care for proteids

measured diet adjusted according to calone values and thorough metabolic examinatio

faces controlled the diarrhora and caused a decided gain in strength and weight - medication had no

effect upon the diarrhosa

Turck believes that since the small intestine varies from 15 to 25 feet in length no absolute rule can be laid down as to the amount of gut that may be removed with safety and that reports of extensive resections are of no especial scientific value unless there can be shown in that particular individual the tot I length of intestine

Short circuiting when possible is preferable to resection particularly if the absorption area in the ilcum be invol ed, and in cases of necessary extensive resection it is suggested that Fantino's plan of creating a vicious c role in the remaining segment of gut be tried

Case J T X Ray in the Diagnosis of Carcinoma of the Colon. I test \( \frac{1}{J} \) gis xx 3 J 913 EX 3 By Surg Groce & Obst.

The author emphasizes the necessity for early diagnosis in carcinoma of the colon and as this condition s comparatively ture it is consequently seen but seldom in routine examination of the colon, and the greatest care should be exercised in all examinations of the gastro-intestinal tract that as few diagnostical errors of omussion as possible shall be made

The rontgen findings in carcinoma of the bowel are as follows

r Delay in the progress of a bismuth meal given

ctnoma

by mouth varying from 48 hours to several days 2 Arrest in the progress of bismuth clysma the obstruction may be complete or may be overcome in a greater or less period according to the degree Haenisch's technique for bi muth of the stenos enterock as should be followed literally. It must be shown that incomplete filling on the far side of the obstruction is not due to insufficient pres ure of the bismuth column or the presence of dired fæcal masses

Dilatation of the colon on the proximal side of the lesion which is evidence of serious obstruction when present. The colon may end at ob truction in a funnel shaped process or there may be irregular filing defects characteristic of cauliflower car

4 There may be a palpable tumor coinciding with the filling defect, but its absence a unimportant especially in erv early cases Farcal accumulations are apt to be present on the proumal side of the obstruction and must not be confused with real tumors

5 The author believes exaggerated antiperistalsis to be a valuable sign in the diagnosis of serious obstruction However normal antiperistalsis which is the prevailing movement in the circum ascending and right half of the transverse colon must not be mistaken for evaggerated antiperistalsis Lagatives before examination increase antiperistalsis and the character of obstruction mahemant or benign organic or postic cannot be determined by this phenomenon

In the author's technique ordinary bismuth or barium meals are used. If the latter is used the barrum sulphate must be known to be chemically pure meal by mouth and enteroclysis should both be used careful cleansing enemata should be given before examination A rontgenoscopic table of the Haenisch type is essential for colon work author calls attention to the necessity of adequate protection around the tube to adjustable lead d aphragms and to the proper preparation of the ejes before a fluoroscopical examinatio patient is placed supine an ordinary rectal tube is introduced past the spincter the container is ele vated 2 ft and the clasma allowed to flow excum should fill in 3 or 4 minutes if no obstruction is present. The progress of the cly sma is watched as it ascends the colon and if any abnormalities are found the exami tion should be repeated at a later date and findings verified. II II GARR

Norbury L E G Imperforate Conditions of th Rectum and Anal Canal and their Treatment Pr 1 to er Loud 9 3 % 834
By Surg Gynec & Obst.

The normal development of the rectum and anus is considered in text and diagram relat e to those

embra ological defects which give rise to imperforate conditions The surgical relief of these conditions is discussed.

The rectum is originally derived from the hind gut and opens into a common sinus with the tirogeni tal tract From this tract it soon becomes enarated by two lateral partitions which coalesce to form the upper portion of the perineal body If this septum be completely absent or misplaced the rectum opens into the bladder or if deficient the rectum opens into the deep wrethra or by sinus into the permeum or in the female into the vagina. This segment known as the postallantoic segment prolongs down ward and meets the anal canal which is infolding from the proctodeum Failure in development of the postaliantoic segment is the most common of all imperforate defects

on absorption of the partition or closest mem brane between this segment and the anal canal results in a less serious defect namely imperiorated anus Defects in the formation of the anal canal are rare When the postallantoic segment fails to der lop, the rectum usually ends in a blind pouch at about the level of the prostate or cervit uteri. This pouch is usually in ested with peritoneum

except over the posterior surface

Treatment must be promptly instituted For mere stenosis the tract is dilated daily by boughe or finger during the first year of life. When only a finger during the first year of life. When only a septum separates the anal from the rectal canal this is to be crucially incised. First however the surgeon must be convinced by the bulging into the anal canal of a thin convex blush septum that the defect is failure of absorption in the cloacal septum and not one of absence of the postaliantoic segment of rectum If the anal canal ends in a pucker it is more probable that the postallantoic portion is deficient and that attempt to puncture or incise the blind end of the rectum will open into the pentoneal ca ity When in doubt or with definite absence of the postaliantoic segment the posterior wall of the anal canal is incised to the tip of the cocci x and the rectum is sought in the hollow of the sacrum posterior surface is dentified and the rectum stripped free of the pentoneum which sometimes invests the entire pouched end The blind end is then sex a to the anal opening incised and held open by tube and later by daily dilatation

When the rectum cannot be found low medium colostomy is done as an emergency measure and the establishment of the normal path is postponed until the second half year of life When fistula into the urethra or the vagina or onto the permeum exists these tracts may close spontaneously after the normal passage for face has been established. Fistula into the bladder must be treated by a perma ent colostomy dividing the bowel and payage nating the lower end however this is an operation of doubtful utility

With the exception of that defect where the rectum opens within the vulva of the female the prognosis is bad Recurrent stenosis is common the economy of the fortus is unfavorably affected before birth the operative procedure is severe and late hyper trophy and distation of the bowel commonly follows Karl Co. Etc.

Martin C. F: The Anorectal Jine 114 (Binical Significance Postologul 1913 11 216

By Surg Gynec & Olst

Martin brings out the importance of the anatom ical division of the lower bowel, by the anorectal line into an upper portion which is developed from the embryological entoderm an I a lower portion which is ectodermic in origin. Mong with these embryological di tinction, are associated differences In blood and nerve supply with consequent in fluence on the pathological con litions of the two Thus above the anorectal line the superior hamorrhotfal veins begin and these empty into the inferior mesenteric year which carries the blood to the portal circulation Below this line the blood is carried via the middle and inferior hamorthoidal to the inferior vens even Agun also e the anorectal line the recture is supplied by visceral or sympathetic nerse fibers while below it the parts are supplied by sparal nerver. The lymphat of from the board above the line drain upward into the pelvis, while those below the line pass to the ingumal glands

I rom a clinical standpoint these anatomical difference has an important bean g upon the symptoms and course of diveave. Infection and inadpaint disease occuring above the anorectal lane tend to spread upward by way of the deep imphatise to the pel ne or uncerential organic ended to pread upward by way of the deep imphatise to the pit not uncerential organic ended to the propagation of this part are not so apt to be printful to are enther associated with a serve of disconfiort Lewons below the anorectal him are usually accompanied by poin while intests in Itom Infections and mill great discuss the control of the part of the propagation of the part of

### LIVER, PANCREAS, AND SPLEEN

Stockton G. G: Condition of the Upper Region of the Abdomen in Relation to Discuss of the Gali Bludder Bosto W & S J torg cl: 86

B S rg Gype. & Obst

The author states that there are four mane causes for obscurit, in highenso of conditions of the upper region of the about 100 to 100 t

symptoms referable to one part really arise from decesse in another v. z. duodenal ulcer may further the bide papilla, and thus occasion jumide points are accompanying symptoms may be to indection of the gall bladder malegnant endoor dutts in its symptomic poly max clovely parallel that of an infected gall bladder. Often there is the absence of the more distinctive features of electrical the liver is enlarged and there is trademas and muvele aparts over the same distinctive features of the and leucocytosis. There symptoms may lead to as unnecessary drainage of the gall bladder with feet and leucocytosis. There symptoms may lead to as unnecessary drainage of the gall bladder with contractive for the production of the same parallel bladder.

The second main cause of mt taken damoses in the presence of comparatively trivial local desaw accompanied by severe and mideading symptoms in connection with the grill bladder region there may be characteristic signs and symptoms of chronic or between the signs and symptoms of chronic or properties different supportance of the signs of your pass or collects. It of sufficient importance to warrant operation and draining yet upon eximing the exposed grill bladder it will be found normal right exposed grill bladder it will be found anomal right exposed grill bladder in will be found anomal the other hand there may be marked local discrewith a very trivial symptomatology.

The thril main cause is the presence of two discrete append citis and cholecytitis are often associated and duodenal or gastric uter may be associated with one or the other hot a few rests are operated upon a chromotally inflamed appendix removed and yet the symptom present due to the presence of a pathological leaon elsewhere.

The fourth cause 1 the small legree of importance which is ordinarily attributed to the influence of datheas an i metabolum. The author believe that poor metabolum are also that poor metabolum is responsible for more of the ills of mankind than is usually suspected. Many cases of gall bidder decease improve under good diet massage and fine elimination. Recently Lore of Paris Paris demonstrated that caulain dependence of the produces and the produce of the produce of

## Dea er J B Cholecyntectomy S & Cont & Cost 9 3 667 B Surg Cynec & Obst In certain well-defined conditions there is practical

unanimity concerning the advisability of removing the gall bladder. These conditions are

1 Hydrops with obliteration of the cystic duct.
2 Chronic empyema

3 Calcareous degeneration

The ch lesterm gall bladder of Moymhan

5 Gangrene

6 Carcinoma lim ted to the gall bladder
7 Extensive faceration or perforation of the gall
bladder

These conditions possess in common two un desirable features (2) The impossibility of restalis ad snieg um and (2) the certainty or probability of the progress of the disease

There are exceptions however even to the above rules The author has, on more than one occasion been content simply to drain a gangrenous gall bladder and the patients have recovered without

the necessity for a second operation

The operation of cholocystotomy is the classical
operation for gall bladder cholethnasis but it has
been almost discarded of late years owing to the

appreciation of the need for dramage in cleaning the gall hinder and bitary passages of an incition of which calcult themselves are both cytother with the property of the pro

Pancreatic and peripancreatic inflammation when associated with gall bladder disease should in fluence our treatment of the gall bladder itself. In fection is carried from an inflamed gall bladder to the perspancreatic tissues and it is believed in a percentage of cases the pancreas may be secondarily infected in this manner. For some time the author has been observing the perspancreatic lymph nodes in the course of his upper abdominal explorations and has found them almost invariably enlarged in gall bladder infections. When in his opinion such a condition is present and the gall bladder presents such serious alterations as to make the question of cure by cholecystostomy problematical he does not hes tate to perform cholecystectomy. He is not advocating cholecystectomy in all cases of peri pancreatic or pancreatic inflammations not all cases anse in this manner When the pancreas appears markedly or chiefly affected he heutates to remove the gall-bladder because of the possiblty that it may be needed at a later period owing to the progression of the pancreatic lesion and obstruction of the common duct thereby

The author's expenence with the operations of cholecystostomy and cholecystectomy inclines him to be rather more radical than hitherto but he counsels the inexperienced surgeon to ching to cholecystostomy. As a rule the stronger the indications for cholecystectomy the greater the operative difficulty.

Wade II N Primary Hodgkin Disease of the Spicen Dorothy Reed Type J Med Re earth 9 3 xxix 209 By Surg Gynec & Obst

In contradist nation to the usual manner in which lodgian disease present itself—that is by primarily involving the glands of the neck or more rarely those of the mediant unor retroperstoneum—the author her reports a rare form of the condition which is primary in the spleen Previous to the case which the author here reports he believes that only one true case ! Hodgian a disease of the

Reed type which was primary in the spleen has been reported in the literature This case reported by Symmers occurred in a young unmarned lemale who had noticed an abdominal mass for some three years previous to the examination. The spleen was removed and found to have undergone the cellular changes characteristic of Hodelan & disease.

The case Wade presents was that of a farmer sy the speed of age who presented a mass in the region of the spleen which was felt full three and one-half inches below the coatsborder. The blood examination showed members of the spleen showed members of the spleen was resulted to the spleen showed the condition to the spleen three does not not the spleen three does not not be typical Hodglain showed the condition to be typical Hodglain showed the condition to be typical Hodglain showed the while primary Hodglain showed the spleen has undoubtedly a rarity at locura more frequently than a search of the literature would indicate. He believes that many of the cases reported as primary streoms of the spleen may have been examples of this condition.

From a study of this article the author's views may be summed up as follows

Primary Hodgkin s disease of the spleen is a con dition quite unique but that it occurs no more frequently than has been held is doubtful since some of the reported cases of primary splenic sar coma may easily have been unrecognized cases of Hodgkins a disease

In view of our ignorance of the etiology of the condition and of the fact that the process occasion ally arises in other deep scated lymphadenoid tissues the possibility of a splenic origin cannot be denied

Since in the present case there was at no time any enlargement of the superficial lymby lands nor was there evidence of any lymphatic hyperplasia within the mediatinum or abdominal cavity and since the d sease was of long standing in the spleen as evidenced by the gross and histopathological appearance it should be considered a case of pri mary Hodgkins d usease of the spleen

GEORGE ! BEILBY

#### MISCRILANEOUS

Müllerheim R.: Diagnostic D fficulties in Ab dominal Tumors (Diagnostisch Schwengle ten bei Abdominaltumoren) Ziechr f Geburich Gynak

bei Abdominaltumoren) Zischr f Geburith Gyndk 9 3 km 78 By Zentralbi f d ges Gynäk u Geburish s d Grenzgeb

The degnoss of abdominal tumors forms a difficult chapter in medicine because for a correct difficult chapter in medicine because for a correct interpretation the general condition of the organ involved at the functional eximination of the organ involved a d the local symptoms of the tumor must be considered. But the local symptoms may be so masked But the local symptoms may be so masked but the local symptoms may be so masked as the local symptoms of the lo

doubt exploratory laparotomy must then be used

as a last resort

To illustrate these difficulties in differential diagnosis which occurred in his own practice the author gives 7 rare cases as follows (1) A cyst of the urachus (2) a congenital abnormal focation of the bladder at the umbilious (3) a sarcoma of the retroperatopeal lymph glands (4) a case of dystopia of the Lidney (s) a simultaneous intra uterine and extra uterine proguancy (6) a phantom pregnancy with tympanitic meteorism and (7) a excum mobile

Bassier, A Some Recent Conclusions on Abdom inal Röntgen Ray Work J Am M Att 913 By Surg Gynec, & Obst. ÎXL 2217

Bassler finds that plugging the cardia to retain the bismuth in the croopingus and then making stereoscopic plates with the patient in the standing position is the best means of diagnosing new growth of the resophagus before marked stenosis exists Another method is to give bismuth in 25 gm quantities suspended in two ounces of syrup of acacia. He believes that the method of examination by food extraction of the stomach contents is more dependable in gaining an idea of exit from the stomach than is the bismuth X-ray method He believes that a rectal injection of bismuth to out line the colon given at the same time that observa-

tions are being made upon the emptying rate of the stomach influenced the retention of bismuth in the stomach to a certain degree He says that carcinoma of the stomach was best disgnosed by the X my method for by it four cases were diagnosed early enough for complete excision and expectation of a cure in none of these were the history test meal, or other laboratory methods of so much value In the late cases of carcinoma either or any combination of methods sufficed

Adhesions of the colon were best diagnosed by the X ray method there being no laboratory findings to take its place. He is not ready to place much dependence upon the value of the X ray in the estimation of gall bladder adhesions, cholecystus cholelithiasis duodenal ulceration or chronic appendicates. In only nine of the 167 cases in which Lane kinks were noticed could they be proved to be factors in causing delay at their site or above it in the stomach where they had operative proof Four cases of renal stone were encountered in which the renal calculus was not suspected from the history In their cases of ureteral stone all of them showed the stoppage of the transit of the stone at the brun of the pelvis or much short of the bladder In one case in which they interpreted a calculus in the pancreatic duct the operation proved the shadow to be a calcified gland outside of and near the head of the pancreas Enw H Sepres

## SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS, MUSCLES TENDONS. CONDITIONS COMMONLY FOUND IN THE EXTREMITIES

Moore J E., and Corbett J F Studies on th Punction of the Periosteum T Il stern S rg. Ats St Louis, 913 Dec By Surg Gynec & Obst

The authors have made a study of bone growth both in man and through experiments in animals The conclusions from these studies are (1) Bones from which a portion of the shaft has been removed heal in the presence of irritation by a subperiosteal bridge of bone (2) Cutting the nutrient artery prevents the formation of a subpenosteal bridge (3) As the nutrient artery supplies medullary bone and as the periosteum is left intact when the artery is cut it may be assumed that the medulary bone is responsible for the subpenosteal bridge

The subperiostes bridge may fill in gaps left in the periosteum therefore the periosteum is not absolutely dependent upon that structure even as a place of refuge The subperiosteal bridge is more marked where it receives osteoblasts from two sources than from one Fascia is a substitute for

periosteum In heterotopic transplants no subperiosteal bone could be produced by arntation. This is somewhat surprising in that the beterotopic experiments were conducted upon rabbits. We know that old scars in these animals frequently contain true bone and that the periosteal device of Scheppelmann begot true bone in the peritoneal cavity

At the present day the periosteum is disregarded, and the modern surgeon may be comparatively undifferent to it when operating upon bone If it is convenient he preserves it because the conservation of tissues as always good surgery but if not he does not besitate to sacrifice it

Hoemer A. J. Our Present Knowledge of Bone, with Reference to infection and the Use of Bone as a Transplant Northwest Med, 1913, 3 9 By Surg Cync. & Obst.

The author reviews the work of Macewen and states that the esteoblasts are contained in the hard cortical substance of the bone and that the persosteum acts sumply as a liming membrane the internal layer of which is loose and well supplied with circulation giving thereby a favorable ground for the proliferation of esteeblasts when they are thrown out from the cortical substance of the bone

He also alis attention to the works of Cotton and Loder in which they call attention to the fact that the endosteum probably plays a large part in the regeneration of bone. The author passes hastily over the regeneration of bone as shown in fractures, still holding to the

theory that the esteoblasts come from the cortical substance. He then saturates the attitude of the physician who finds a patient with pain in the bone and without making a thorough examination assumes that it is rheumatism and advises local appli-cations and opiates and allows the infection of bone to progress until there has been considerable destruc tion and the patient is toxemic. He emphasizes the fact that many of our present empples are due to the negligence of some doctor who did not recognize the heavy bursting boring pain which accompanies infection under pressure as an osteo myel tis and allowed the destruction of bone to go on until the patient was permanently crippled

In his treatment the author calls attention to the necessity of immediate operation giving free drain age to every infection of the bone whether it is periosteitis or an osteomy elitis He quotes Albee s saving that many liberties may be taken with a bone graft without interfering with its success and disagrees with him stating that cleanliness and asepsis must be observed at all times in handling bone graft and that bone is the easiest tissue in the body to transplant providing the bone is taken from the ame body. He calls attention to the fact that foreign bodies such as nails or screws loosen up when inserted into bone and urges the use of hye bone transplant or intra medullary splint as the best means of holding ununited fractures P B MACYUSON

Fründ II Our Experience with Röntgen Treat ment of Surgical Tuberculosis (Unsere Erishrungen mit der Röntgenbehandlung chrungsscher Tub-erkulosen) Bestr kli Ck 9 3 lexxvi 208 ) Beile kli Ch o 3 lazavu 208 By Zentralbl f d ges Chir u Grenzgeb

Within the last two years 71 cases of tuberculosis were treated at the Garre Clinic by Iselin's method of rontgenization but the good results described by lselin were not obtained in spite of the fact that the treatment was carried out just as described by him in the Basel Institute and although with only a few exceptions mild cases were selected. The author concludes that as a consequence of the good results reported by Iselin experiments have no doubt been carned out in various places but the fact that only a few cases have been published seems to him to indicate that at other chinics the results must not have been ery brilliant. He cannot account for this difference : the results, but thinks that perhans tuberculosis shows different degrees of malignancy in different location Of all the forms of tuberculous treated lymphoma was the one most fa orably influenced little o no reaction was seen in bone and Joint tuberculosi In many cases there was a de cided change f the worse there was proliferation of the gra ulation t saue in cases of fungus which has never been reported before The author thinks it desirable for the sake of the ring up the question f r other hospital where the rontgen treatment of tuberculosis h been tried to report their results.

Ransohoff J Osteltis Deformans Central Sar coma Streptococcus Infection Land ! Cl By Surg Gynec & Ob t 0 t c 672

The nationt a male 40 years of age without any history of venereal disease was in good health up to five years previous when he began to suffer with pain in the left leg so severe at times as to demand Three years later he became quite lame morphia as a result of the forward and outward bowing of the A soft tumor mass over the tibia was opened on the supposition of it being an abscess, but no bus was present Following this inci ion the leg began to swell reddened to the linee and a continuous fever developed which induced him to seek admission to the hospital. His temperature at this time was 103 5 leucocytosis 23 000 The left leg from the ankle to below the knee was twice as large as the opposite one the skin bright red tense and glisten ing Over the center of the bowed tibin there projected from an opening a fungus mass as large as a hulled walnut which bled freely whenever touched From the opening there was also a profuse foul, purulent discharge - the stain of which showed a

streptococcus The skingram shows marked bowing of the tibia with a chronic inflammatory process extending practically along the entire length of the bone Rarefaction hyperplasia and subperiosteal con densation of bone are in evidence. The fungus mass is plainly seen projecting through an aperture in the compact anterior wall of the tibia at the point of greatest bowing

The diagnosis of central sarcoma secondary to

deformating estertis with extensive bone infection was made and amputation through the lower third of the left thigh was performed under spinal novocame anasthesia

The writer reports on the pathological findings which confirmed the diagnosis

Ransohoff states that he has failed to find in the literature any mention of cases in which streptococ cus infection has occurred in osteitis deformans or of central bone sarcoma CHARLES M JACOBS

Ely L. W Diseases of Joints and Bone Marrow Am J S g 19 5 EX 11, 370 By S rg Gynec, & Obst

Inflammation of the bone-marrow may be caused by any number of different organisms-chiefly the

common pus producing organisms

In the more common form the original focus

usually forms in the marrow of the metaphysis and spread until it reaches the central marrow canal The inflammatory process spreads through the cor tex and involves the deep layers of the periosteum here pus forms and may make its way to the sur face unaided

When an osteomyelitis has run its course the sequestrum remains in the involucrum indefinitely In treating osteomyehtis it has been the rule to allow \ature to do all she could before there was any operative interference but Aichols advises the

removal of the sect retrum as we n as the periosatum he formed enough new home to held the limb in due

In syphilitic ostromychil and period is yphi I tie I re lesions may occur in the here I tary form of the disease or in the late see miny y tert any

Mage of the acquire I from

Here is local destructure if he can I the f rms to a famen sired colecture fa mucilia ous rea erial urrounded by befored to a These at u ually form fast beneath the perin cum and firm e'rmes the surface oper ge of which are dark ted targed a i ur form of The thick rang f the peninteum a peculin at falmost figure cas s the pecul sa ler shaped this The ch ferest mert ) lite a trast i frum

Typ! if c for myel to and penes ates are fairly fre juent con ngoy in the is estareted the divare in malescer realiers us to three I sma then are frequent and f t be f ! ming these after remain peniral game The tream to

ecrupative

The auti or regard a testi deforman -P get a citen steorogelts of a known eticlogy in which the t extections in thath' kered and a primetin at II new t ex sue ternal urval i ed petruiti g gre t d f em ty f th tong Loren T) ber are bowed outward and seem too Lit I the trust The Leave is con if red

incurat le I lebete is a next integral of wave of infancy and

chiller I chara ter red to be e changes especially in the long loves The most marked cla me take gia e in the regum of the epsylvecal it which becomes irregular and breaters i the times become soft and best and select takes place after the d water run ft nur The treatment i larzele cer tilutional but deform ties must be corrected

by operati n or by ther me no.
The cond if a f entropositymous i hopathics is characters ed in a general defenency in bone for reation both in the day by seand in the rectaphysis. The chil che al manife tation I the wave are the abnormal frish to of th be rean I the mait ple fractures from they the dagnos es made The only treatment a to protect the patient

Onteofralacia is a f sease of a known coultry chwarter oil an urfammate a an i degereration of the spongy and of the deree bone enempe estore ben prests tenn takes place an i the lones of the line r e tr m tree be I and become ural et upper the bot le tment sually

feurti

a tum rah he as t ul bore mostes of ur a the skeletal bonce timic and a li These tum is wh h may be either multip single are me od by a lay r of perionte m alone or I a lay r I cartel ge is add non The treat m at is removal Recutrenc is fairly frequent but they tumors are not mai en nt

Yew growth of the marrow a 1 periodeum may Le either ben gu or m lighant Of the formet class

the so called benign myeloma or grant-cell sarcome. is the most important. I at I recently this tomor was regarded a a variety of sarcoma but it is pay then ht by many authorities to be a dainely benign growth with a tendency to heat recurrer & If not thoroughly removed

My loma a occur most frequently in source adults ar i u ually esthout any known to te The my I ma t a r w powth of the marrow con s time of large numbers of the so-ca od gant st re and sound cel with a en neithet see etroria The ha a thin bor shell cover g As the tumor in reases in a e the bore of the counts but there is I tile if any production of new bone The s stren rat 'm a tanned et thee area in the home et e ed br a lou girg well i had she lot tone

for authors say the pen tire dampous! mother growths earn t be made bel to operation.

find ran cial techemia the myelora mud be openetantever part to 1th 1 wased to us must be removed with a urit and the carne swanted with article and nd alcotol if the tumor return the operat n may be repeated several times of recovery R O Errus

Taplor Il 1 Charcot Joint as an Initial or farly symptom in Tabes Dorsall / In Il g the t By urg Cypec & Chet

The auth is reports ay cases and draws the feliswing conclu is

1 than t joints and spo taleous fractures are of en taal or early symptoms of tabes dorsals. a than a p t are frequently of traumatic ongo n! tren ( low fractures an I lesser mjunes I h result of r'hoperac treatment in early

of moder the ad ed ages at vers a tedactors a Orthopeus tre timent by protective sphritt & should also be used in the lance joints of takes due to hypot mu bet re the appearance of swell gard ell suo

s Ih term t ses forcal bould be used in pre rene 1 th tern locomete teas LEC | PL MI

Morley J T umatic Intramuscular Duification. 'u j as it was trace & Oto

liter a n d athen of the theories of causation experimental trimation f tology differential disgree p ig n and treatment f traums in intrarruncials not tion the uther arm es at the fol wig nel

I Ir m in it m wular o affication myort t un - fur t m gration of outco-Mal pat a fr ntused must be and blank-clot after desi i h f the perso-teum a f loss of its function iming m mbr t the growth of bone lu eve tally h same process as alla formatio

a Thir dit may a produced apenmentally in ar mil by reproducing the same mechanical condition by a will spen perat a

- 3 In a case of difficulty in diagnosis from sarcoma open exploration is advisable A Simple excision is usually though not invaria
- bly followed by recurrence Conservative treatment condemns the nationt to a long period of disability which may occasionally

be permanent

Excusion combined with grafting of deep fascia on to the denuded surface of bone gives the best prospect of rapid and complete recovery and is urged for all cases not complicated by ossifying penarthritis 7 O teoblasts and chondroblasts are the same

cells under different conditions of nutrition M S HEADERSON

## FRACTURES AND DISLOCATIONS

Burnham A C. Spontaneous Fracture and Bone Cysts I ter | M J g 3 k By Surg Gyner & Obst

The author reports the case of a policeman who fell and fractured his leg Subsequent examination by the X ray showed an area of softening in the tibia at the point of fracture and the picture resembled very closely that of a beingu bone cyst Operation revealed a grant celled sarcoma after amputation the patient made an uneventful recovery

The author comes to the f llowing conclusions (1) Certain cases of giant-cell sarcomata very closely resemble benign bone cysts both in the early symptoms and in the radiography of the early stages of the growth (2) every case of fracture from slight trauma should be \ rayed and (s) in giant cell sarcoma of the long bones there is often slow growth with the absence of metastases I H SATES

Jones R An Orth pedic View of the Treatment of Fractures Am J Orth Sug 93 x 34

By S rg Gynec & Obst

Every fracture is a potential deformity and the first consideration in treatment is to maintain a true anatomical alignment of the shaft in case of lo g bones The traditio al wooden board a not the best f r this purpose as no human limb will fit a flat board Sheet iron gutter shaped fitted to each case and nadded to a old bony prominences is best and di tributes the pres ure around the himb thus preclud ng pressure sores I fractures near or in the joints the proper disposition f small fragments s of gre t importa ce in restoring alignme t especi lly of a s of mo ement. If properly handled the tendon and muscles passing a 1 int are of assi tance in treatment for example in the elbow with fracture of c ndyles the triceps t ndo can serve as an flect e plant if the arm s put in acute flex n as a now almost universally do e of the ld t me right angle method

It s well t f llow the rule of Thoma n m ly that a k t which is tender t palpation not re dy i r mo me t If after tend mess has dis

anneared five or ten decrees motion is obtained a good prognoss may be given Passive movement should later be done once in each direction in which motion is limited Passive movements to and fro are likely to stir up inflammatory reaction which results in more adhesions Massage should be used lightly to avoid stimulating the young callus to fresh overgrowth Experience shows that except in the actual condition of disease nearly all cases of non umon" are really cases of "delayed umon

The time required for union is a personal equation and may be two or three times the expected period. The author uses the hammer and dam method of Thomas in these cases The region of the fracture is hammered with a rubber mallet then a tight elastic band is placed above and below at a distance of several inches Physiological use is the best agent to assist in making union solid but it is wise to protect a fracture with artificial unport even after it appears to be firmly united In fracture of the neck of the humerus the upper fragment is frequently abducted after the fracture forcible breaking of adhesions should not be attempted for at least three months

Fracture of the shaft of the humerus rarely requires operation except to free the musculospiral perse from callus Superfluous callus in front of the elbow total will absorb under continuous pressure of acute flexion In fracture of both bones of the forearm if the ulna is held straight the rad us will almost take care of itself. It is important to see that supmation is possible before the callus gets too hard. Gutter shaped metal splints are best. Stiffness of the wrist and pain on motion aix months after a callus fracture nearly always means an improper reduction the deform ty should be corrected under gas I v treme tenderness in the anatomists shuff box usually means fracture of the scaphoid in this and other f actures of the carpus the wrist should be put in dorsification. I or fracture of the shaft of the femur the author doe not use weight and pulley exten ion but overcomes the shortening by exten ion with a caliper plint the counter pressure of which comes on the perineum this he claims prevents muscular spasm as a result of varying muscular tension In fractures of the neck of the femur he puts the leg in abduction in a double Thomas him spl at Impaction i broken up only if the is rotation or material horte ing Fractures of both bones in the lower fourth of the leg are usuall

Parh m F W and Martin E. D. A New Desice for the T eatment of Fractures \ Orl \ \text{If} & 5 J q 3 1 45 B) 5 rg C) rc & Ol t

operated upon by the author because of diriculty

in secur og al goment by any ther method

The authors decusa the difficults of holding oblique fractures by means of wires and nail have used a ban I of metal three-eighths of an inch wide b 6 mehes in length made with a 11 in one en ! The ware is passed about the fracture and

tightened by passing through the sit cutting off the extra length and turning down the end AL AL STRAKEUS C

## SURGERY OF THE BONES JOINTS ETC.

det P The Treatment of Grave Fractures after the Technique of Lambotte (Le traile after the rechnique of Lambotte (Le traile ment des fract res gra es su ant 1 tech i fue de Lambott ) I de ch / 1913 xi 89 By Su g Gynec & Obst

The author's experience comprises twenty cases ine author's experience comprises (wenty cases of frictures of the long bones treated by the open method following the technique of I ambotte restrict the indications for open treatment to restrict the indications for open treatment to those cases which are incapable of healing by the conservation methods. This cases have led him to the following general conclusions (1) Operation the following general conclusions (1) Operation sh uld not be attempted without perfect equipment sn uid not be attempted without perfect equipment
(2) It hould be restricted to grave fractures which (2) It noul the restricted to grave tractures which cannot near 1/2 bloodiess method to those in which there i a chance that they will not heal by bloodiess methods an I those which apparently will be ex-methods an I those which apparently will be ex-cessively delayed in union (3) The operation is cosnely detayed in union (3) and operation is too difficult to be undertaken by any but experienced too dilucuit to be undertaken b) any out experienced surgeons. The author believes that the open treat ment of fractures will find as broad a field for itself.

ment of tractures win ting as proud a neig for usest as has the operation for the radical cure of hernia s mas the operation for the radical cure of nerma. The most is orable time for intervention is the the most is oranic time for intervention is the tenth day following injury but for compound fractures it is necessary to wait until the wound has entirely healed. The work wasted as one as one of the compound of the compou

Rigorous ascrite precautions for the operative with good result field and the as retaints are insisted upon. The entire limb is wa hed the day preced ng the operacuric minn is we ned the day preced in the operation with soop water alcohol and either and on the operating table the surgeon himself performs the final cleaning with bearing todaine and then with functure of sodine. The surgeon and his as si fauts me the many precantions and never but the gloved hand into the wound

the groven many muo one sound.

The primary considerations in the operation as deviced by Lambotte are the perfect reduction of the fracture and the solul and listing maintenance of that redu tion There follows a minute de-scription of the technique followed by the author scription of the eccumings nonloved by the authors with what he find to be improvements on a copyration and instrumentarium of Lambotte. The point especially emph, ized a the importance of point especially empirities a the importance of denude the bone f all covering and allow the frag ments to be brought up freely into the wound ments to be brought up freely into the wound After the fragments ha been reduced and held in place by instruments modified by the author the prace by macroments mounted by the reduction are different methods of maintaining the reduction are

Oblique fractures are best held by a circle of bronze-aluminum wire which instead of bing described propagationing wife water instead of ping trained is tied by means of a traction instrument of

the author's The screw 1 to be used to advantage the authors the serent to be fixed to the shift or in where magments are to be used to the shart or in T fractures, but cannot be expected to be permanent

a tractures, our connot be expected

The plates of Lambotte are the favortie firation and places of Lamboure are the rayone mation material of Fredet - He considers the usual method of ability of 1 sector 11s considers the again burden or agony time secrets in more to use wrong in principle. The hole in the bone to receive the screw should be hored by an instrument which makes threads in the bone corresponding to the threads in the screw The external fixation apparatus of Lambotte is mentioned as useful in treating fractures which must mentioned as useful in treating fractures which must be held in place by an appliance attached at some or new in place by an appliance attached at some distance from the fracture. None of these methods distance from the macture and cases to the exclusion of the others If the site of fracture is of doubtful or the others at the site of matture is or condend at steril ty all foreign material should be avoided at stern ty an toreign material should be avoided at the site and the external appliance of Lambotte is indicated. If an aseptic fracture is very oblique indicated. If an aseptic fracture is very oblique and superficial the wire ligature is the best method. if the fracture is trans erse or lightly oblique the if the tracture is trains erse or lightly conique the bone plates are best but if the fracture is deep, the none plates are nest out it the tracture is deep, the plates reinforced by wire ligatures are preferred The wound is suture ! in layers periosteum with

and wound is suture a mayers—periosceum with linen or catgut then the muscle and fascial layers. closed with loosely drawn sutures which are left in place until the first dress The hae of sutures is touched with tincine of sodine and a terrile bandage carefully applied or moune and a terms naminage caretum applied. The tibia and femur when fractured are encased in daster In order not to have an immense cotton dresung o er the wound terile jersey under the uresung o er ine wound tenle Jersey under the plaster sused! or nt the mot ture of the plaster from penetrating Th cast and bandage are left from penetrating in cast and canuage are set undisturbed during the u ual time of healing for corresponding closed fractures all passive motion or massage are condemned on the ground that they interfere with the mainten nice of the fragments n

The author oncludes a th the tatem at that he good nosition had always con idered his result in treat og frac tures by closed method ufficie tily satisfactor) until be compared them we be the results be ha obtained by the operat e treatment

Dujurier C The Open Treatment of Fractures of the Let Old and New (D t attends as glast des fruct res di ) mbe recentes et norma mor recentes et accentes 60 B S rg G net & Obst I de ch

In the uthor ha treated in the it got to the leg by the open method He mes etknih t there be

result and i du i n

no entles mil uppur ing pot the kin in the k He loc not n I the a loss ht op ion between the fith and 15 perfecti or time in op ion octween the into and tenth da ( flowing th | ju ) the most fa orable time ( r pt alion

and has mothet he angsthesis constit g f g of stov

IJ

The endosteum

Hitzrot, J M: Some Problems in Bone Surgery
Was M J to 3 m By S rg Gynec & Obst

The author takes up in five stages the theory of regeneration of bone as advanced by Dupuytren and reviews the work of Wieder on regeneration giving the following five stages

r Tirst to fourth day period of infiltration
Fourth to twelfth day period gradual absorption of the exudate from the soft parts and its re-

placement by connective tissue undergoes formation of osteoid

undergoes formation of osteoid trabecule at a distance from the line of fracture 3 Twelfth to eighty fifth day stage of reorgani zation. Augmentation of the callus where it is

most needed and absorption where it is not required 4. Permanent callus format on e ghty fifth to two hundred and eighteth day absorption of callies with 12 red postulon of densier bone in the didated spaces and the appearance of distinct handles in the new bone. Wieder did not continue has work to the fifth stage as did Duppy tern but he points out that diduction the didated handles in the didated handles and the distinct that the distinct of the distinct that the distinct that the distinct that the distinct of the distinct that the distinct of the distinct o

The author states that his work and the information derived from it so closely resemble that of Wieder that if repeated at length they would paraphrase his findings already given He states that the most important factor in the stage of exu

dation is the formation of fibrin

In conclusion judging from his experiences he believes that bone graft covered by periosteum, and with endosteum on its more surface is the best graft to use. He points out that there are dispersioners in all the experimental work that there are extrain undetermined factors which seemingly cause a failure of bone production by the periosteum under indication and into my with the own which bone produced and that the endosteum is an important factor in the regeneration of transplanted bone.

B WYCHROA

Dennis, W A: Treatment of Osteomyelitis Si
Paul M J 9 3 xv 605
By Surg Gyner & Obst

The author vashes to emphasuse certain wellestablished principles in the treatment of septiinflammation of the bo es which are often lost again of In acute cateomyeths the open g in the cortex should extend as far as there is any sign of pan in the meddlary carty. Simple drausage is all that should be sought. Simple drausage is all that should be sought that procedure destroys the state of the state emphasing this important point Even so valuable a work as Von Bergman is System of Sur egy malest the mistale of recommending the curet tage of the medullary cavity in acute cases The English system of Cheyne and Burghard does the

Some of the cases of acute osteomyelitis are accom

panied by effusion into the neighboring joint. This may be due to invasion by the infecting organism, but is more often due to secondary undertoon changes and ordems. Even if infected to should not be opened and drained, as was tenth until the past few years but should be sparsed and imagest or injected and this repeatedly if necessary. The onen drainage has almost unwantly

resulted in a still loint

The author calls attention to an etiological factor which is infrequently mentioned. He states that the importance of suppurative middle ear disease has apparently been ent rely overlooked and yet an inquiry into the history of all the cases coming under observation during the past two years shows that a large percentage especially in children had suffered from suppurative otitis media. Granting the cor rectness of the observation to importance can hardly be overestimated first because t shows the necessity for competent treatment for this condition whenever found second, that of taking care of any active process that may be there present at the time of operating upon a case of ostcomvehitis and finally the prime importance of early care of those two great causes of suppurative middle ear disease inflamed tonsils, and adenoids. The reason that active suppurative esteemyelitis is so often multiple and consecutive is that while the first hone involved is treated the infecting focus is allowed to remain un disturbed and often even unsuspected. The importance is therefore emphasized of determining whenever possible the primary focus of infection and subjecting it to efficient treatment

The author then takes up the question of the value in chronic cases of various plugs and comes to the conclusion that Mosetig's indoform wax plug provided it is used according to directions gives the best results

EDWAID L COMMIL.

Brown W L and Brown C. P Preliminary Report on Bone and Periotteal Transplanta tion Surg Gynec & Obst 913 viu Gynec & Obst By Surg Gynec & Obst

During g x to 1913 the authors carried out a series of experiments on dogs t determine if possible the answer to the f Howing questions

r Will p rosteum produce bone when trans-

planted into tissues without bouy co tact?

2 Will periosteum produce bone when left attached to bone and periosteum at provimal end, passed around fascicula of muscl and again con

tacted with periosteum?

3 Will bon reproduce bone and continue to live when deprived of periosteum and transplanted nto the tissues without contact with living osteo-

genetic tissue?

4 Will bone live a d reproduce hone when transplanted into the tissues, not deprived of its

persosteum and not contacted with living osteo-

genetic tissue?

5 Will bone live and reproduce bone when
transplanted and contacted with living osteogenetic

tissue?

6 Will bone reproduce bone without the aid of periodecum?

7 Is it essential that the transplant have a function in order to be permanent?

Based upon their experimental work to date the authors draw the following conclusions

They were unable in any experiment to reproduce bone from free periosteal transplants into the subcutaneous tissue and muscle
 They were unable to reproduce bone in any

- pernosteal flap which was raised left in contact with the bone passed through muscle and again contacted with pernosteum with the one single exception where there was a small nodule of bone formed apparently in the free and of the flap corresponding to another nodule on the shall of the bone opposite of the contact of the contact of the conformed anywhere else in the flap the bone in the tup of the free pennoteal flap was due to ostebolasts raised from the corresponding area on the shaft of the bone
- 3 They were unable to reproduce bone in any experiment from free bone transplants without periodstein into the subcutaneous tissue and muscle regardless of the age of the transplant Absorption was the rule in every case.
- 4 They were unable to produce bone in a single experiment where bone was transplanted free periosteum being left intact into the muscle or sub cutaneous tissue These transplants were uni formly absorbed
- 5 They were unifo mly able to reproduce bone when transplanted and contacted with living bone if it were in position where it had a function to perform
- 6 Other necessary cond tions being present for its reproduction bone reproduce bone without the aid of periosteum
- 7 The transplants that were contacted with living bone and had no function to perform were inclined to absorption
- 8 While perosteum may be an aid to the life and growth of bone the authors were n t able to prove in any experiment that t was at all essential

Alli on N and Brooks B The Mobilization of Ankylosed Joints S rg Gy cc & Obst 013 By S rg Gynec & Obst

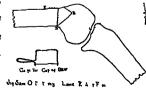
The object of the expe iments was the study of the changes which follow the interposition of cer tain substa ces between denuded j int surfaces Dogs were used f r all experiments and th substances studied were.

- 1 C rgile membran
- Free tran plants of fascia lata
  Pedunculated flaps f fascia lata
- 4 Chromicized pig s bladder (Baer)

- 5 Fascia lata which had been treated by a chemical process, in which the fascia was impregnated with finely divided silver
- From dissection and microscopical study of the experimental joints after varying periods the following is emphasized at Carrele membrane does not prevent union of
- r Cargile membrane does not prevent union of opposed denuded joint surfaces
- 2 Fascia lata prevented union of the joint sur faces only in those experiments in which the fascia transplant underwent necrosis and absorption. In the instances in which the transplant preserved its vitality it adhered to the joint surfaces and bound them together.
- 3 Pedunculated flaps of fascia were in no way superior to free transplants and they had the disadvantage that the pedicle persisted as a band hmiting joint motion.
- 4 Chromicized pig's bladder (Baer) produced in the joints a large amount of fibrous tissue which bound the denuded joint surfaces together
- 5 The silver impregnated fascia was a relatively non irritating absorbable substance which prevented the union of the joint surfaces
- Osgood R B The End Results of Attempts to Mobilize Stiffened Joints S rg Gy c & Ob / 19 3 xvu 664 By Surg Gynec & Obst

After discussing the successes and failures of attempts to mobilize stiffiend joints the author states that the operation is applicable to cases of permanent faction of the knee-joint with useful motion in further flexion remaining (1) Cases in which from growth or disease the contour of the condyles offers bony resistance to complete extension (2) long continued contractures in which forcible extens on would bring too great pressure on viscals and not successful.

The technique consists of two inch incisions on either side of the femur just above the cond-jies posterior to the upper cul de sac of the kines joint blunt dissection carried over the top of the femur beneath the upper cul-de sac joining the two in cisions a small sax blude or carpenter a coping saw (see figure) at B the angle of the cut is changed



and a saw cut made to D. The saw is then disnegred from the jaws of the instrument and a fresh saw is passed over the top of the bone and engaged in the jaws. A second su-cut is then mude in the direction of CD I join the saw left for purposes of orientation. The qual Insisteral portion of loone being now entirely free ('UECD) it is pushed out through one of the incressors and the legs straight end. The line ID in Deposed to line CD with the oriental portion of the ferment thus preventing backward duplacement of the condi-"The day disagree of the operation are (1) Simple

The ady antages of the operation are (1) Simple lity of performance (2) avoidance of injury to the upper cul de sac of knee joint and impos ib ity of common backward of placement of the lower end of

the femur

Flore er L.: Implantation of Joints. Cal f Si J If d 19 3 1 495 By 5 rg Cruce & Obst The author cites two cases of implantation of

joints reviews briefly the literature and discusses the question of rigeneration of bone

In his fact cree, I anh, low of the anile following receiving of the astragala he exposed the just received the malloul and gouged out a space in the occliect to receive the graft. I notions of the tillus fisials and a translu were removed from a colvice or and present in Ringer a work of the many promotion of the properties of the properties of the properties are the properties supportation peru ted an I amputa tion was done

The preserved specimen showed a firm fibrous umon of the tibt I portion of the graft and aroun I the bones was a mass of callus thrown ut by the remaints of the patient, this percoverum which

surrounded the implanted joint

The secon I case was one of anky love at the base of the rung I nger. In implant was made 66 hours after the death of the donor the woun I has healed and as a result the patient his 13 degrees active and 60 degrees passive motion in the joint there is a firm bony mon

The author's conclusions are best given in his

1 Implantation of joints is a feasible and useful procedure

useful procedure

"4" Much of the implanted bone becomes necrot
ic it is not shed however but amalgamates and is

absorbed and replaced by bring bone
"3 A smill part of the implanted bone remains
all c viz the superficial inner and outer layers
4 Much of the implanted periorteum and end

4 Much of the implanted perio-teum and end osteum remains alive and is probably the source of the new bone

3 A sub-equent arthritis deformans does not seem to develop in the new joints 6 The fresh cadaver is the most practicable

source of material
Only fresh cada ers of patient who have

Only fresh cada ers of pattern wan nave died suddenly of a non-infectious disease should be 8 \understand \

Magruder F P Infantile Paralysis Affecting the
Lower Extremities Its Surgical Treatment
and Possibilities of Currei A Peliminary Report.

J Am W Air 9 3 | 1705
By burg Gyace A Oler

The author reports the operation and alteratment in a case of anterior polomywhite persenting a complete purelyse of the entire at complete purelyse of the entire until tower extrements, except f r a a glid tooledy of the beeps muscle. The operation consisted in transpolaration of the interest into the pretical and a double fination of the ankle joint by means of three servers. With the fool! In the corrected powering at right angles to the leg one screw was proved through the external multicolus utracada an endactaneou another through the arternal multicolus almost at right angles to the first with its attendance another through the new three three controls are the control of the first with the standard and calculated and the first with the foot. The head of the firmer was returned to the accetal them at all a pila it of Paris cat many applied from the foot the costal margins and allowed to rerunn on f f sax we ka. The woords

healed by first tention

Following this proced re a long course of patie t
pers tent efforts at funct nal use was carned out
an i now the patient can walk a far as 50 feet with-

out supports of any 1 nd

The author believes that frustion of the author but on those is a valuable sub-trute for arthordess much less destructive of true quicker in realisurer and simpler. Moreo or the screens can be removed when tufficent tringth in returned thus ristoring in part the integrity of the authority to the authority of the authority.

#### ORTHOPEDICS IN GENERAL

Mager L.: Paralysis of the Quadriceps Femoris A Clinical Study of the Paraly 1 and Disc. sion of the Mechanical Principles Involved in J S 1 2013 44 Comp. 2 (No.

The author twice excepts no to the opton of Volkmann and Hoffs that quadrecept puralves invariable leads to great recurration and to the opton of Polkmann and Hoffs that quadrecept puralves invariable leads to great recurration and to the opton of Polkmann and Oppenheim that a put ent thus puraly set is amable t i truit with ke set from Top rose thus content on Mayer h s made a model read he mecha call condition privated in quadrecept paralyses and he is able to behave the model with the parts in the able to behave the model with the parts in the able to behave the paralyses how ig the patient willing climb; g stars and hising from a setting position Thees show that the action of the quadrecept can be replaced to a great cette thy the weight of the body provided the other muscles of the thigh a d leg are

well developed and properly coordinated moderate degree of equinus position aids in this extensor effect of the body by bringing its center of gravity posterior to the new fulcrum - the heads of the metatarsals - thus established The gluteus maximus and the soleus act directly as extensors of the knee by drawing the thigh and call backward These facts the author claums, provide contra indication to operation for an isolated paralysis of the quadriceps extensor GEO I BAUMAN

Geist F S The Etiplogy Diagnosis and Treat ment of Weak-Foot and Similar Conditions.

Si Pa I V J 19 3 xV 506
By Surg Gynec & Obst The author gives the etiology of muscular im balance of the common static weak foot as being due to ill fitting shoes callosities ingrowing nails faulty posture hard modern floors muscular weak ness resulting from illness and lack of exercise and deformity He treats these conditions by the select we use of various exercises. Thomas, heel Ochsner strapping elevated inner sides of shoes appropriate shoes and a modified celluloid brace He also calls attention to the promiscuous use of arches in all cases presenting foot trouble

In discussing those cond tions which simulate weak foot 1 e Morton a foot calcaneal spurs tuberculosis fore gn bodies accessory bones vari cose veins fractures arterioscleros endarteritis obliterans an I multiple arthritis the author lays especial emphasis on the use of the \ray as an aid in diagnosi II W Vergening

Whitman R The Importance of Positi e Support in the Curatly T eatment of Weak Feet and Comparison of the Means I'mployed to Assure Comparison of S g g 3 S Surg Cynec & Obst.

The primary disability of so called flat foot is a lateral d stortion the lowered arch being secondary There is a passi e attitude of abduction which is characteristic of all weak feet the cure then is rationally a subst tution of normal attitude children support 1 neces ary because the cooperaweak feet is as used by the author an instrument of precion the a to er which the brace i made is taken with the foot lying on its outer border the weight of th limb in the position correcting the The inner fl ge of the brace rises abo e the astragaloscaphoid rticulatio while the outer flange which is lower extends from behind the posterior tubercle of the os alcis to a joint behind the base of the fifth metacarpal. The brace thus presents lateral distortion at is a positive support at not only prevents deformity but the predisposition to it and enforces a proper attitude in walking. It differs from other plates in not being broad in front and not enclosing the heel It is made of unyielding metal A necessary accompaniment is a properly fitted shoe which will tend to throw the weight out ward instead of inward Treatment by gymnistics is ineffective unless deformity is restrained positive brace is applied to hasten a permanent cure and enable the patient to d pense with all support I CLARK

Davis G C The Treatment of Hollow Foot Pes Cavus. Am J Orth Su g 1913 x 23 By Surg Gynec. & Obst.

The main characteri tic of hollow foot is elevation of the arch There are two varieties paralytic and non paralytic

For the paralytic cases there is no standard of treatment applicable to all cases Operative treat ment is to be undertaken only after conservative treatment two to five years after the initial attack the aim being to support the anterior part of the foot and depress the arch. To accomply he this a steel shanked shoe with double strap over the insole may be used. In equipus tenotomy of the achilles suffices For calcaneus it may be necessary in addition to tenotomy of the plantar fascia to transplant the tendons of the poster or tibial and the peronca to the os calcis The operation of Forbes, transplantation of the extensor longus hallucis to the head of the first metatarsal may be necessary to hold up the ball of the foot

Procedures necessars in the treatment of the non paralytic type are tenotomy of the plantar fascia and tendon of the flevor longus hallucis lowering of the elevated arch by instrumental means, wearing of steel shanked shoes with a strap across the instep, In case of complete paralysis of the calf muscles extreme calcaneus and fiail foot the Whitman astragalectomy, or the more complicated osteotomy of Jones, should be done. The author describes the technique of h s own operation for this condition which differs from both of these. He makes a

transverse horizontal section of the tarsus through

the subastrugal id joint then pushes the foot back

in plast for eight weeks

ward and the leg forward hold ng it in that pos tion

W A CLARK.

## SURGIRY OF THE SPINAL COLUMN AND CORD

Ven bl S Bn implant tion in Ptts Tex St J Vol 93 46 By Surg Cynec & Obst The uthor bri fly describes the invasion are

disposing causes and p thology of Pott disease

and with some detail discusses the typical Albée operation

In a short report of one case the usual predisposing causes as tubercular parentage faulty nutrition the exanthems and direct cause and the tubercle bacilli ladeing in fertile soil are all ment.coad

The anatomy of the blood supply and the formation of the vertebra, with the nathology and more ress of a tamest tubercular process with nature a

attempt at renair is also covered

The author states that absolute rest is the essential in the cure of this disease, and has been the key note of all treatment since the disease has described by Pott but he believes that the so-called classical treatment of rest in hed decibities and extension. corrects and other mechanical devices with the object of firstion of the diseased area has not been satisfactory

The typical Albie operation is described in some detail the spines above and below the during are are exposed and stalt and a wedge from the tibia inserted and sutured and the wounds closel Following this mechanical effects are noted at once, and only rest in bed the patient being allowed to move from side to side with the usual general hypnenic measures is all that is needed

hypicau measures is au toat is nerous.

No mechanical support is used, and recovery is uncomplicated and the repair progressive.

A report is given of a tailor who had been unable to work for eighteen months because of nam, but who was able to return to work after fourteen weeks from the date of operation

C C CUATTERTO

## SURGERY OF THE NERVOUS SYSTEM

Linners Luxution of the Ulgar Nerve (La luxuion du neri cubital) Bill de l'ess med belge d accid

The ulnar nerve is the only one in the body that can be dislocated At the elbow it has in the bottom of a groupe formed by the internal condule inside and the electanon out ide. It passes between the two heads of the flexor carps ulnaris muscle. It is moreover kent in place by a transverse fibrous band extending from the olecranon to the internal condyle As the result of a fall a violent effort or an injurwhich may be insignificant one of the muscular bundles of the flexor carps ulnams or the fibrous band may be stretched or torn Then the nerve is not held firmly in its groove Every time the patient flexes his forearm on his arm quickly the nerve passes in front of the internal condyle. It is an intermittent dislocation and it is surprising that it does not take place oftener when we consider the frequency of injuries to the elbon. But in addition to the im injuries to the chow had in southern to the mediate cause there must be a predisposing cause in the shape of mefficiency of the natural means of holding the nerve in place. Incomplete development of the internal condyle is as important from this point of view as absence of the fibrous band

The symptoms do not leave any doubt as to the nature of the affection. The nerve is displaced with every flexion of the forearm and there is severe nam in the region supplied by it. The continual irritation of the nerve finally causes neuritis which may lead to serious consequences if not treated in time. The treatment consusts in exposing the nerve and making a new sheath either from the perosteum of the olectanon and internal condy le or from the neighbor-

ing aponeurosis Lapoens had a case in a workman as a result of a fall on the elbow At the first operation he detached the periosteum from the internal condyle and autured it over the nerve to the tendon of the tricepa There was recurrence and the second time he de tached the periosteum from the olecranon and sutured it to that of the int rnal condyle This remited in complete recovery I DEMONT

Perekropoff A J: The Regeneration of Nerves by Uniting th End with Blood Vessel Tokes (Die Regeneration on Vervender kien bei Versal gung de Faden durch Gelasswhren (Viteren und yong de raden uuren Gelamaning i lexe, r Venew) 4 d k L m Ke en 9 3 lexe, r By Zentralbi f d ges Ch u Grenzgh

The great experimental work of this author which has been published also as a dissertation (Kasan, 1013) was carned out on dors After resection nieces of the sciatic and tibial perves. I 116 and 2 cm long the gaps were filled in with arteries and veins, and the process of regeneration, especially the method of penetration of the nent thers was studied. The literature of nerve suture is treated in detail, and cases are cited in which the attempt was made to protect the nerve suture with blood vessel tubes (Foramette Hashimoto Tolucia, Treutlein Spatzy Von Eiselsberg Lexer Wrede and others)

The author's own cases include at experiments on 28 dogs ten experiments were on the scutic nerve and 27 on the tibial - four times the carolid artery of the same doe was used I can were used in 33 experiments the jugular being used either fresh or prepared by Foramitis method in ten experiments The suturing was done with the finest silk and catgut The duration of the expenments was 15 to 377 days. The specimens for microscopical examination were prepared by Ramon y Calal's method and colored by Weigert's and

On the ground of his experiments and the microscopical pictures the author comes to the following conclusions The regeneration of the peripheral end of the nerve takes place as a result of the nerve fibers of the central end growing through the blood vessel The perspheral and and spliced pieces of nerve do not influence the growth of the fibers in the sense of neurotrop in but any serve to point out the direction of growth. The seel tubes of the arteries and vein are untable material for unit ug the ends f nerves the artenes are absorbed by slowly Fresh vessels f th same animal are to be preferred to pr pared essel

The veins are more convenient to use for material than the arteries The vessels are not only adapted for uniting widely separated ends of nerves but they are a good protective material in nerve suture and neurolysis The nerve fibers grow through the lumen of the vessel and provide the pempheral end with axis cylinders e en when it is two or three em

The growth of the nerse fibers is hindered 242) by blood clots and connective tissue formation The vessel tubes are very well adapted to uniting small nerves in this case the ends of the nerves only have to be inserted into the lumen of the vessel The best suture material for nerves is catgut Detailed case histories conclude the work

SCHLACK

## DISCASES AND SURGERY OF THE SKIN FASCIA, APPENDAGES

schner M. Present Status and Prospects of Autoplastic Transplantation of Fascia (Der gegenaar ge Stand und die näch ten Ausschten der a tool tischen freien F seen Übertragung) Bur z h. Ch. o. 1 ieux 5 Kirachner M

Ch o lexx 5
B. Zentralbl f d ges Chir Grenzeeb

Fascia transplantation which has had the most practical success of any of the modern attempts at transplantation I reviewed critically ( ) the author who has a large amount of material of hi own to report and numerous cases from the literature. The essential point in successful transplantation f fascia is that the tran plant should take with ut any Inflammatory reaction At rest as well as when in functional acting the autoplastic transplant shows a tendency to live and become incorporated with the neighboring conne tive tissue even if it has been impossible to carry out absolute a ep-is

Some surpri ing results ha e been obtained in the covering over of infected cavities. The tran planted fascia undergoes changes such as swelling an l vascularization t may be transformed into con nective tissue callus or fatty tissu often how ver it lives n its normal condition \ ecessary condition for good results is that the tran plantation should be autopla tic in opposition to the opinion of Rehn who recommends homoplastic tran plants tion Fascia has the dvantage over other kinds of material such as peritoneum and periosteum that

it is easier to brain a d gi es greater firmness. In the special section Kirschner discusses the use of favora lata to form artificial tendon points out the difficulty of securing firmness with the ordinary tendon suture the hunted possib lities of bridging over a gap by autoplastic tran planta tion of the tendon of the palmans longus and the security of the art ficial replacement of a tendon by silk. All these disadvant ges are o ercome by the use of fascia I to It can be used in the I llowing es evont?

In the f rm of a cuff to trengthen the suture where broad end of tendons are brought t gether 2 For brigg g ver a large gap by being rolled around the tump of th tendon and utured. In this way a ni l u ion I the fascia is bt med which is not in dange fibe git in out unless it is placed and r great tension and so it functional art ty can be resumed early. This rend is secon dary dhest us to the urrounding to ues impossible and insures the m tility of the tend n \ cording

to the cases r ported early motion seems essential even if there is slight infection. In artificial sheath of fascia may be put around the saphenous vein to insure its moving smoothly

3 I or the correction of paralyses of the facial muscles (a) In Pagen techer's operation in pto-is a strip of fascia is inserted subcutaneously between the or spitofrontalis and the upper lid and by lifting up the lid the normal correcture is obtained (6) To ov reome paralysis of the facial nerve a band of fascia arched anteriorly so as to include a large extent of tissue 1 frawn through the soft parts of the paralyzed angle of the mouth the two ends are leasn over and under the zygomatic arch and utured so that the angle of the mouth is held in the desired pos tion

4 To replace ligaments of joints () In the treatment of flat foot when it is in the position of pronation the tuberosity of the navicular bone is fastened to the internal mallcolus with a strip of fascia and in this way the foot is fixed in a position of supmation The author opposes katzenstein s method of u ing periosteum in this was methods must of course find their justification in the permanent results obtained Fyen though th firmness of fascia is seven times as great as that of periosteum an absolutely permanent fixation is by no means as used. The use of bands of fascia n the treatment of lislocation of the fibula seems The torn retinaculum of the fibula is autured and strengthened by a strip of fascia applied over it. In the same way the torn capsule of the knee to at may be strengthened by uperimposed flans of favora

Faralysis of the erratus may be corrected by unit og the low r angle of the scapula with the rib below it. The procedure the same in paralysis f the trapezius. It is not clear honever what ed antage there is in transplanting facts in a location whire functionally active muscle could gen sally be made use of There is a pecial indi cation for fascia tran pla tation in hirschner a method fr ju en le muscular dy trophy of the should a gardle because this disease involves several muscles and it is not po ble to replace them by funct nat ng muscl

6 In the treatment of hab tual dislocation of the shul ler the author recommends a band of fascia 3 so cm long mi the felt ad and over the cansule

of the huller sont

7 For fixation of entire glandular present such

as the kidney and testicle

8 To close the cavity of the stomach and intestine and for the trastment of rectal prolapse in the form of Thereche ring. A large field for its use is found in the closure of hermas in the region of the umbilicus the linea alba and the lateral abdommal wall. In such cases the fasca can be sutured over the gap and bridges it over more advantageously than any other known material. The same thing as true in the inguinal canal when anatomical coordinous reader Bassans operation difficult. In femoral hermas Kurshner recommends a long strop of lasca as a tampon behind the hermal a long strop of lasca as a tampon behind the hermal toneum and the femoral faces to stop up the hermal toneum and the femoral faces to stop up the hermal canal belos the sature.

Large flat flaps of fascia can be used to close up openings in the thorax so that they are air tight after the removal of large tumors, for instance. The skin is autured over the fascia. The fascia is resist ant to variations in pressure Fascia flaps may be used to close up defects in the dura. In this location the fascia has the capacity for closing up the dura so as to prevent the escape of cerebrospical find and the entrance of infection and of preventing secondary prolapse of the brain.

Kurschner reports ad cases there as a healing by first intention in all cases and he has start detail in regard to a of them. He had excellent results in the use of lesses to replace the data in first transmatic injuries in three cases. Whether the faces forms addressons with the pas and the brain not yet definitely determined but there are seven ways in a which it may occasionally be used. As sheath to surround and strengthen a blood weak surue, to strengthen the sails of an anenism to strengthen intention or urethral satures and to does up vise covagnal fistulte to close cavaties in mecons membrane and for neterposition in mobilizing analysical goints.

## MISCELLANEOUS

## CLINICAL ENTITIES -- TUMORS, VLCERS ABSCESSES ETC

Bloodgood J C Control of Cancer J Am W
A 19 3 1 2283 By S rg Gypec & Obst

The number of curses of canors can be increased by earlier intervention and better surgery. Statistics as to the percentages of cure of the various forms and stages of canors can be furnished by the records of the great climes of this country in which the canes are carefully checked up by pathological examination. In the fully developed canors in entitle view and in an is smaller when the diagnosis can be made churcelly than when it can be made only intervention of cures after five years in cases that can be recognized climeally by refracted nuplie or adherent skin is about 35 per cent of those that can be recognized climeally by gross apparature.

or by the nucroscope at a 80 per cent. In the control of cancer both the ranks of the profession and the people must be taught the importance of endinating the desease while it is still chinically beings. The old method of waiting the largest of cancer simply may be applied to the again of cancer simply may be applied to the property of the same and vasible mucous membranes. Bloodgood was unable find the absence of a previous defect which might be looked on as a beings presenterous lesson. Of oye puthelial tumors of the skin same off oye entitles at the same sense of the skin same skin

We have not to-day the figures to prove that the routine and proper removal of those beings is called precancerous lessons will reduce the number of deaths from cancer but the recent evidence is suggestive. More operations will be done for the precancerous lessons and an the early stage of cancer that is not yet clinically recognizable, with probability of cure fewer cases will thus approach the probability of cure fewer cases will thus intendicancer it is more difficult to recognize the pre-cancerous lesson and until this is done we cannot

hope to increase greatly the percentage of cure. The author between the greater unformity must be established in the treatment of cancer in the different localizations the diagnosis must be made at the exploration of the tumor and in cases of doubt the complete operation for cancer must be done.

Patients with malignant disease present them selves for aid in the following air groups

I Hopeless and moperable cases in which there is no hope even for the palliation of the symptoms by any operation
2 Inoperable and hopeless in which cases,

attempt to reheve pain and prolong life by some operative procedure may be made 3 Chinically malignant and apparently operable

3 Chnically mahgnant and apparently operable cases in which at operation the disease is found to have extended beyond possible remo at with kinds or cautery

These three groups represent moperable cancer and up to the present time have been meurable. The hopeless condition is often due to delay and procrastination by patient and physician and t is sometimes increased by inadequate intervention at the most inversible time.

The patients with operable malignant disease

may be divided into the following group t Clinically malignant cases in which clinical symptoms have developed which indicate mang

nancy as definitely as the microscope 2 Chrically benign in which the lesions e hibit none of the symptoms associated with mal gnancy the nature of the disease being revealed either at the operation or microscopically

The precancerous lesson in which undoubt edly the hope for the almost complete erad cation of cancer rests on the recognition and complete eradication of the precancerous lesion whatever it

may be

The final argument in favor of surgical treatment in the precancerous or in the very early malignant stage is that the expense of treatment is little either to the hospital or to the patient and the period of disability is short ROBERT II IVA

Teuffel R Kraurosis and Cancrold (kra ross und Ca crosd) Z t lbl f G k 9 3 xxx 008 Ca crosd) Z t lbl f G k 9 3 xvvv 998 By Zentralbl f d ges Gynāk u Geb t h d Grenageb

The author presents a brief hi tological description of a case of kraurosis and cancroid in which the infimmatory process of the Liturosis brought about a marked decrease in the amount of c remomatous tissue and a profuse pearl formation. The author considers this change analogous to that seen after radiotherapeutic treatment VA MES

Musgrave W. E. and Slson A. G. Acute Mal & nant Glanders in Man. Ph 1 pp. J. Sc. 0, 3 V. 185 By Surg. Gynec & Obst.

The authors report two cases and abstr ct two previou ly reported cases of glanders is man which ran a rap dly fatal course. The diagnosis was established beyond quest on of a doubt in all cases The disease is characterized by a general infection with the bacil s mailer. The period of incubation is unknown. The onset is usually sud den with a chill or chilly sensations with fever and indefinit aching pains simila to the e of dengue The joints rapidly become swollen painful and go on to suppuration The lymphatic gla ds also become swollen a d painful and in case the patunt I ves long eno gh br ak down and form open ulcers. The skin lesions wh h ar quite characteristic usually begin to make their appear ance four t see n days after the onset of the disease. The lesions ar first simple uperficial papules which rapidly enlarg become vesicles then pustules and finally break down to form an open ulcer That the diagnosis which is relatively easy to make both linically and culturally is frequently not made du ing l f and rarely during the early stages of the disease the authors ttribute to the fact that the disease is so rare that it not kept

in mind as a poss b lit; The diseases most fren confused with glander are dengue fever cute rheumatic fever and som skin diseases. The first should be ave be recomized by its characteristic blood picture second is more difficult to distinguish until foint suppuration or the characteristic skin lesions make the diagnosis of glanders clear The pronounced constitutional symptoms in glanders should always serve to distinguish it from skin diseases. The prognosis in acute malignant glanders is bad and there is no known treatment that influences the BARNEY BROOKS course of the disease

#### SERA VACCINES AND FERMENTS

Ball G. F Abde halden a Serodiagnosis of Cancer and Pregnancy V i W J 19 3 cs 1 40
By Surg Gynet & Obst

Ball presents a review of the literature relating to the diagnosis of pregnancy by the Abderhalden technique with especial emphasis on the possibility of its application to the diagnosi of cancer While behaving that sufficient work has not been done to allow a positive statement he thinks that it is at least safe to say that there has been no test previously devised that runs so positive to a known condition of malignancy with so high a percentage of positive results further there is no test that runs so uniformly negative to all other conditions

A review of the literature on the miostagmin reaction of Ascoli the Kelling hæmolytic test and on Dungern's complement deviation test shows more favorable percentages in the diagnosis of malignancy with the Abderhalden serum test. Fo demonstrate the value of the Abderhalden test in diagnosing pregnancy the author presents ab-stracts of over two thousand cases reported by various observers

In his own cases, using tissue from a lympho-sarcoma involving the retroperatonical glands with the sera of the patients, the autho obtained positive results a three cases known to be mal grant and negative re ults in two doubtful cases. He reports three cases having a double ferment reacting positively with both placental and tumor tissue two parturients and one a male with pap lloma of the bladder Seven pregnant cases reacted positively with placental tissue negritively with the malignant tissue W th the exceptions noted above all the malignant cases gave a negative reaction with placental tissue

He uggest the possibility of being able to differents to the kind of tissues involved by ob taining re ctio s with the proteids from different forms I mal guancy Using a sarcoma proteid he obtained reactions differing from those obtained w th a prot id prepared from an epithelioma of the cervit With the latter pregnant conditions would apparently goe the malignancy reaction in cases known not to be malignant probably because of the ability of the pregnant ferment to digest uterine

tissue as will as placental tissue
He emphasizes (1) the desirability of always working with at least two kinds of tissue one of these necessarily t be carefully prepared placenta

(2) the necessity of designating the kind of material used in all experimental work when other than placental tresue is use ! (3) the advisability of assocrating this to t with experimental tumor transplantations in animals and (4) further experimental work irrected toward eliminating if possible all sources of error in the present technique

D H Burn

Parce R M: The Scientific Basis for Vaccine
Therapy J to W 4 1011 1 1115 By S rg Gynec & Obst

I three gives a very generalized argument for the placing of prophylactic vaccination for infectious diseases on a scientific basis. He argues in a imil r fishion that although curative vaccination has no sound scientific basis, the general principles of immunity and chinical 1 servation offer a plausil le explanat on f r the treatment of chronic in fections and carry ra" He shows that the curative vaccination has no bas in the acute self limited diseases and is pur ly experim neal and that the only proper method of vaccus tion is with the autogenous variety of vaccines

To place therapeutic vaccination on a scientific basis it is necessary to tudy the in lividual and his infection and the author's ggests that it would be well for the chinical work r with vaccines to remember the assertion of Wright that the man to check off the cl n cian an t aid him in h s investiga tion should be a min who ha spent years of study in mistering the tech ique and learning how to make the vaccines where to look for the microbes how t reolate them and most of all he should be a man with ufficient experience and ability to Do 10 Gornov apply all these things

### BLOOD

Gózony I : The Serologic Difference Between Maternal and Foetal Blood Serum (Cher seroligische L tersch ede zwischen mütt isch m und fötalem Blutserurs) Tinks f Imm Il forsch

By Centralbi f d ges C) nat u Geburgh s d Crea eeb In common with Suchs Ryrosch Lopf and others (65zon) found that the fortal serum of the guines 1 g d d not contain either a hamolytic or a guines 1 g a a not consum transf a namon of a bettericial c mplement. In factal rabl t and pug sera the hemolytic complement was lacking but these sera showed almost as much bactericial strength as the maternal serum. The hous that in rabbit serum different substances cause hamoly i II xx and destruction of bacters

Noestlin C and Macht D I: Isolation of a New Manoconstrictor Substance from the Blood and the Adrenal Cort s Presence the Substance in the Blood and Its Acti a on the Cardiovascular Apparatus. J !m Il

The authors have nolated a new vasoconstrictor substance from the blood The work was suggested by some investigations on dehepatized dogs, some years ago where the I cher's fistula had been used to exclude the liver Dogs so treated manifested a train of symptoms resembling those of possening sure marked cardiac stimulation and final ston

page of the heart in systole

1 rom defibrinate 1 human or and pig blood and
serum they realisted by a process of their own a ub te crystalline sub tance This substance is spanngly soluble in water freely soluble in chloro-

form and acetone hot ethyl alcohol and other

organic solvents The study of the action of the substance on the blood sevels and bearts of warm and cold blooded animals showed that 1/300 mg produced a marked effect of con triction of the vessels of the from's hin t legs by Trendelenburg's method and of the rabbit's car by the method of Pi eenssii Small quan ities acted on the hearts of the frog terrapia and to id in a manner s milar to the digitals bother there was first marked increase in force and con traction of the ventricle with increase of tone and volume output of heart muscle Strong solutions produced irregulants of the best marked closure an I tendency to systolic standstill with decreased volume output during this period. This effect was more apparent in injured hearts or those known t be in pr it condition at the beginning of the exper intent

It wa found that the quantity of extract corre sponding to one com of human blood when duluted with 500 ccm of Locke a solution was sufficient t produce a cry marked construction of the rabbu s blood essels

The substance was also isolated from blood plasma and red cells The recent studies of O Connor Stewart Zucker and others have shown con clusively that 3 stemic blood with the exception of blood from the renal year does not contain erene phrin and other constrictor substances in the blood have been suggested

The authors conclude after a study of its ph si cal chemical and physiological properties, that it a sub tance with diff rent pharmacological prop

erti s than that f epinephrin

The m thod of p eparation definitely excludes its ring epinephrin \ sufficient quantity has not being epinephrin been solated by them to make a complete chemical analysis. The physical and chemical properties so fir determined for the body seem to point to its relation to hi lesterin on o e hand and cortex of adren I on the other

1 tudy of adre al cortex extract was mad and its pharmicological action was identical in so far as it was studied with the crystaline body described as having been isolated from blood and sera. As none f the physiological properties of the substance were changed by bouling with weal, alkalies the possibility of it being epinephrin was positively excluded the latter being a product of the suprarenal gland The w L is f especial interest as the function of the adrenal cortex has been a mystery so far Dovain Gospon

Le Cal é J: Changes in the Blood aft r Con striction of a Limb (Des modific tions du sang près con trotton d'un membre) J d Phy iol et d P thei te 0 3 27

By Journal de Chirurgie

Le Calvé has done experimental work on the rabbit and has studied the changes in the blood after construct on of a limb or part of a limb in the human subject as well.

He chose a region nch in nerve fibers, where sums and jumphatics were abundant and where the blood channels were sufficiently deeply burned in the muscular masses so that they were not compressed by the ligature and permitted the access of blood. All these conditions were present in the call the ligature as placed a little above the protuberance of the gastroement. In should be true tight enough so that the ubject feels engorgement and tingling but not too ught for the pulsation in the foot from the arm under the usual conditions before and after the another the usual conditions.

before and after the application of the ligature This constriction of the call taken as an example produces local and general effects The local effects are insemificant a little cedema and a little tur gescence of the vessels of the region which assumes a rosy or even a slightly cyanotic color general effects on the blood and on the circulation are very interesting. The blood is dehydrated and becomes so concentrated that t will hardly flow through the needle. This property is particularly marked after a half hour of constriction m nute aft r the hgature is removed the blood flows freely through the needle again \s a result of the dehydratio which comes from a t ansudation of a part of the serum into the interstitial spaces the press re is lowered but rises again abruptly even to ab e the n rmal after the experiment Dehydrat on is proved by the fact that the albumin increases ery much under the influence of the lig The chlorides however pass with the water into the interst tal spaces so that the chloride content of the blood is decreased which is a fact of great importance. As soon as the ligature is re-

mored the chlorides pass into the blood again.

These experimental facts can be pulsed to human pathology. As the con triction conduces to coagulation of the blood it may be used as a means of com

batting hæmorrhage

The remov 1 of the ligature causes the substances in the interstitial spaces to flow back into the blood current therefore bleeding with the object of re heving intoractin is should be performed after its remo al. As con triction of a 1 mb decreases pressure t is of service in cardiac cases:

The decrease and uncrease in the chlorides on application and removal of the ligature explain the good results obtined in cases of Bright's disease.

Figure Court

Ottenberg R and Kaliski D J Accidents in Transfusi a Their Prevention by Preliminary Blood Examination Based on an Experience of One Hundred Twenty Eight Transfusions

J Am M Ass 1913 1 1 2138
By Surg Gynec. & Obst.

The authors must that accidents in transfusion due to the occurrence of harmolysis or applictionation of the donor s blood by the patient s serum or vice versa can be absolutely excluded by careful prehmmary blood tests They have encountered 17 cases whose blood was actively hamolytic for several different donors on hemolytic donors were eventually found in all but two in these severe but not fatal harmatura resulted. The other case died apparently from a phagocytosis of red cells by leucocytes in the circulating blood They encountered three cases of reversed hamolysis that is hæmolysis of patients cells by donors serum They found three transfusions in which the serum of the patient was agglutinative to the cells of the donor two were fatal with phagocy tosis of red cells and one had severe hamaturia Over 30 control observations on non agglutinative and non hæmoly tic transfusions failed to show any phagocytosis. The authors have seen four transfusions in which the serum of the donor was agglutinative to the cells of the patient without untoward effects Febrile reactions occurred in about 10 per cent of the trans fusions likewise urticaria and other skin eruptions prespective of harmolysis or agglutination TORR W HARME

# BLOOD AND LYMPH VESSELS

Ion Heuss R. Ambulatory Treatment of Various Velatia and Univers of the Leg with Adheel e Plant r Bandages (Die ambulante B hand lung des arkösen Symptomeni.complexes unbeson ders des U terschenk geschwures mit der Kebrobunde) Munken mei II hisch g 3 lz 272 by Zentabli I d ges Chur i Grenzgeb

von Heuss has tested the treatment of varicose vens dermatoses and ulcerations of the leg with adhesive bandage on 350 cases for a number of years and recommends it ery warmly The effect of the bandage is due to continuous methodical pressure and also to the therapeutic action of the adhesi e material The b ndage material is elastic the adhest e matt r does not irritate the skin even when it is left on for long periods of time. If there much secretion from the surface of the ulcers, the bandage can be left in position it does not e en need to be taken off fo warm baths etc and is therefore very economical The active medicinal component of th adhesive material is a combination of lead in th form of htharge As a result of the treatment ordems and varices disappear dermatoses heal all sorts of ulcers even indolent ulcers with

indurated edges are covered over with skin more or

less quickly The treatment is ambulatory the

patients can be out of bed and with care can go about their work. The results depend on a careful carrying out of the directions given in the article

Burdenko N: Ligation of the Portal Vein (Zur Frage der Unterbindung der Vens porta) Deniede Zischr f Ch 1913 czn 95 By Zentralbi i d gen. Chur u. 1 Grenzgeb

Three times in the course of the last five years the author has had the opportunity of observing the physiology of the portal vein in the human subject First in a case of gunshot injury of the liver the portal vein was compressed for only a short time during the operation A severe reaction took place the pulse immediately became thread like the pupils dilated and death tool place after eighteen hours Second, in a case of extiruation of the hidney the inferior vena cava was severed. As an immediate union of the ends of the vessel was not possible the cava was sewed into the portal vem and the latter compressed for half an hour The pulse became week rose to 120 and then so high that it could not be counted the punds dilated and the respira tion was rapid. The intestine and all the other organs in the region of the root of the portal vein were very much congested and the spleen was dis-tended Death resulted after six hours Third in the case of a young man who had been such for years it was decided that the anollen intra abdom inal lymph glands were the cause of the ascites and they were temoved They were found to be firmly adherent to the portal vein and the vessel wall was torn in such a way that suture was impossible. As the collateral circulation was well developed the

vessel was ligated and the patient recovered the Experimental work by physiologists has shown that the portal vein can be ligated without danger to the life of the animal if there has previously been a senes of firm artificial adhesions established between the omentum and intestines and the abdommal wall The author experimented with six soimals completely closing the portal term not less than eight days after the preceding operation and found that the animals died after fifteen minutes at the most He believes that the nervous system plays a predominant part in the production of the effect of ligation of the portal vein, and particularly a paralysis of the peripheral gangia He concludes from his experiments that a compression of the hepatoduodenal ligament and the portal vem for a greater or less time shows technical and anatomical results that correspond to the teachings of physical COSSERV

Oliver J The Relation of Hodekin a Disease to Lymphosarcoma and Endoth Homa J Med

Renest & 9.3 kmr seep By Sarg Gyner & Obst In this stricle the author again raises the question as to the nature of Hodghin a disease whether it is a granulomatous or neoplestic process. He belie es that a comparison of Hodghin a disease with the two universally admitted neoplestic affections of the lymph glands will throw some light on the nature of the former condution and in this attick he describes in detail the two affections, lymphosarcoms and endothelioms, of whore seoplastic nature he believes there can be no doubt, and conpares these findings with those of Hodekin a discus-

He attempts to show that 42 constitute a serie of neoplastic processes of the lymphatic plans which differ not so much qualitatively as quantitatively. The material at 4m disposal was that collected in the Fathological Laboratory of Cooper Victoria Golgege and the Lefsed Stanford Justic Victoria Golgege and the Jefsed Stanford Justic Victoria Golgege and the Jefsed Stanford Justic Victoria Cooperation of states of the Cooperation of states of the Cooperation of the

He first describes the histological processes presented by the various diseases and reports in detail the findings in 7 cases of lymphosarcoma, 9 cases of endothelioma, and 5 cases of Hodelin's disease A few striking points of similarity he calls particular attention to in reviewing the facts. First that although not so regular in appearance the presence of cosmophiles and grant endothehal cells is found in the majority of the frankly neoplastic sarrows this fact he believes to be of more than casual siz nuficance A still more striking appearance which he found is that of fibrous connective tissue forms tion not only in advance of the invading process but in the substance of the tumor mass itself As he states the formation f fibrous connective frent has been one if the main arguments for the granulomatous inflammatory theory of Hodglin a dis ease and its occurrence in lymphosarcoma has been denied by many writers

In the author a present sense throus connectuetissue formation and the related occurrence of plasma cells is evident in all the specimens though it is not so marked in the more malignant cases. He concludes his study as follows.

I Hodgin's disease must be classed with the lymphosarcom ta and endothehomata of the lymphglands as a neoplastic process. The following facts compet this conclusion:

(a) The similarity and in cases identity of the histological process

 (b) The e ri) a d constant development of mahamancy (nvasion of capsule and veins)
 (c) The ultimate formation of true metastases,

partly at least b the blood stream

The endothehomata of the lymph glands are

of relatively frequent occurrence and may be classed as endothehoma medullare endothehoma scuriosum and endothehoma enhancium (Wingradow) or better by the classification of Ewing as diffuse alreoiar and pervascular Coocci E Brinst

### POISONS

Churchman J W Cutaneous Manufestations of Septicernia is J if S 9 3 cd 833 B) Surg Gynes & Obst

The author discusses the predilection of some infections for some pecual part f the body and the comparate e immunity of other parts from them pointing out that we must look for some other explanation than a rich or poor blood supply Recent observations with amiline dyes have shown very sensitive relective actions and have suggested that chemotropism may play a part in these pro-

cesses The following case is reported \ Pole o years of age had sustained a ragged lacerated scalp wound one week before admission to the hospital. The wound had been sutured by a phy ician following which the patient went on a week's drunk and when sent to the hosp tal had a temperature of 102 5 The edges of the wound were found to be separated by necrotic tissue and the skull which could be explored by the finger was not fractured Resonance on the right de of the back and avilla was impaired and coarse musical râles were heard throughout the nght side

The temperature ranged around 102 a delinum soon developed a d consolidation of the whole right lung was soon apparent Cutaneous lesson which were blobs upon hyperæmic bases and filled with a clear fluid which soon became hæmorrhagic quickly developed upon th hands and feet were intracutaneous one on a l tile finger looked as if a finger-cot had been drawn over the finger with a sharp line of demarcation between the bleb

and normal skin

The patient died of a streptococcic senticermia with double pneumonia sevents two hours after admission the organi ms were isolated in pure culture from the blood and from the fluid of the blebs

The author further differentiates the lessons of a scrticemia from the erythematous lesion the popu lar rashes the urticarious the harmorrhagic group the ves cles pustules and pemphigoid emphons and heroes H A Porrs

### SURGICAL THERAPEUTICS.

Barker L. F. and Gibbes J. H.: On the Trest ment of L. ukæmia with Benz 1. B. H. J. k. ment of L usersia.

If pk ns Hop 9 3 xxiv 363

By Surg Gynec & Obst

In July | 012 \ on Koranyi reported the first case of splenomy elogenous leuk emia in the treatment of which benzol was used. He states that he was led to the institution of the therap; through the pharmacological effects of the chemical as illustrated in Selling experiments e an inhibition of the effect or a stimulant ction upon the production of red blood cells and hamogion n

From his experience with the drug Von Koranyi

formulated the f llowing conclusions

Benzol first t ds to increase the white blood cells but shortly leads to an improvement in the leukæmic condition The fall in the white blood count usually begins at the end of the second week or at the beginning of the third week of therapy the decrease t first being low a d th n quite rapid

The general condition of the patient is improved use as with \ rays and other forms of treatment

2 Benzol acts more slowly than A rays but some patients improve under its administration who do not respond to the usual therapy Previous or hasten the action of the new drug

3 The drug can be safely given in doses of 4 gm. daily and its admi istration with equal parts of ohie oil seems to lessen the tendency to produce unpleasant symptoms such as heartburn eructa-

tions and vertigo

A Benzol seems to be efficacious in the treatment of polycythæmia with splenic enlyrgement, one case showing a fall in red blood cells from 9 000,000 to 6 700 000 after three weeks of treatment

The rapid accumulation of new data on this subject has tended to confirm in almost every detail Von Loranya's original tatements Billings of Chicago has recently reported five cases in which he used benzol four of he patients suffered from my elogenous leuk emia one of them from lymphatic leukamia. He notes essentially the same changes as reported by \ on Korany; but draws attention to the entire di appearance of myclocytes from the blood in one of his patients whose white count had been reduced from 101 000 to 3 000 Barker and Gibbes report a case of splenomy clogenous leu Lamia in a white male 57 years old that responded in the usual manner to benzol therapy. The symptoms which he considered as due to the splenomyelogenous leukemis began approximately two months before his entrance to the hospital consisted of extreme nervousness anorexia insom ma and marked depression with feelings of general inefficiency The physical examination was entirely negative. The blood picture showed

Red blood cells 3 672,000 White blood cells

345,000 Hb (Sahh) Benzol was administered beginning with 2 gm daily the dose ber gincreased 1 gm each day until it had reached 5 gm and was continued in that quantity for about ten weeks Five days after the treatment

was started the white blood cells rose to 210 000 then they began to fall and after twelve weeks the white count had fallen to 10 200 Approximately seven weeks after the benzol treatment was discon tinued his blood count was as follows Red blood cells 4,006 000

White blood cells Hb (Sahh)

6,800 76% George D Brithy

Chemotherapeutic Treatm nt Braunste n A of Cancer with Selenium and Iodomethylen

Blue (Chemotherapeutusche Versuche an Arebskran en m tiels Selenjodmeth) lenbiau) Beri kl lick ch o 3 l o2 By Zentrabl i d ges Gynäl. Geburtsh d Grenzgeb

The author reports favorable results in the treatment of cancer with intravenous injections of Haendly P: Anatomical Findings in Carci nomata Treated with Mesotherium and Routgen Rays (Anatomsche B i nde b i mt Mesothonum und Röntgenstrahten behandelten Car

chomen) fred f Grade 19t3 c 49

By Zentralbi i d 200 ( ) with the Geburtah a d Granzach

Burns and the author made a series of eversions for microscopical examination and found to an increasing degree as the length of the treatment increase I decrease in the size of the careinoma destruction of carcinoma cells, scienous of the connective tissue and chances in the versels. They report the microscopical picture in five cases that had been treated by deep irradiation post mortem. The microscopical findings were as follows.

In the cases arradated before operation there were superficial necrosis and marked changes in the earcrooms cells, but the action had not been un form as cells in the process of lighterration las side by side with living and acti e ones. There was no effect on the hypoga the glands. The post mortem specimens had been more thoroughly irradi ted but in state of that there were still cell nests in the walls of the cavities. These cells were not acti a but the surrounding tissue was so severely injured that sudement cannot be passed on the effects f

deen greedestan

Haendly comes to the conclusion that deep pradiation is not uniform and not sufficient to thoroughly destroy deep sexted carcinomata by extreme filtration it may be possible to accomply he this authout injuring the healthy tiesue

Rangi E. Schüller II and Sparmann R Radium Treatment of Malignant Tumors Radium Treatment of Vallguant lumors (Frishru gen über Rad umbehandlung der m lignen Tumoren) li sen kl il å stå 93 xz 65 By Zentraihl f d ges Ch t si Grenzgeb

The authors worked first for four years with o me radium bromide but for the past seven months with 225 mg radium 1 o mg mesothorium and partly with ridemant represent of 150 mg radium. They used therea ing doses and thorough filtration with lead gold salver and platinum filters of to 2 mm theel and secondary filtration through rubber and gutt percha. The maximum dose is 22,000 m lbgram hours. The radium was sometimes laid upon the tumor sometimes buried in it generally near the periphery large tumors were previously reduced as much as possible Only inoperable tumors were treated that had been demonstrated histologically to be mal gnant There were 53 cases all together

The first group included six cases that had had apparently radical operations performed upon them They were treated palliat vely but there were three extense e recurrences w then a short time Rela tively mall doses wer gi en on account of the

danger of burning

The second prout included 17 cases which had not been operated on and which were treated them peutically Ten of them withdrew prematurely from the treatment one of them a case of sin carrinoma of the hand subsequently had an amountation performed Of the remaining 36 seven soon showed that they were not being benefited one a case of carcinoma of the breast that was taking 10 752 millioram hours of radium us died dones the treatment - one a case of smudle-celled sarcoms of the picuta receiving 12.180 millions hours of radium died after the tenth treatment of bleeding from crosions and mediastinities. In six cases in spate of the use of large doses of radium and mesothorum only a slight local effect was observed or with a favorable local effect a market change for the worse in the general condition. In three cases the tumors showed a decided emosth while under treatment in three cases carcinoma tous nodules disappeared unit r rad um treatment a recurrent tumor of the ton-me a lossi-celled careinness of the skin of the nose and a tumor of the tongue in which glandular metastases were afterward extirpated. The doses in these cases were oo 324 and 16% miligram hours

In eleven cases in which the treatment is not yet finished, a marke liv fa orable effect of the radium rays has been observed although the time is yet too short for a decisi e judgment An elective effect of the radium on the tumor cells has not been observed. Thy are destroyed sooner because ber a degent ated c ils they succumb more quickly to any I rm of traum Enthel um is more senutive than connects to sue there were burns of the mu co s membran of the mouth on irradiation from

mitsid In deep seated t more the dangers and injunes of rad um treatme t from destruction of these cannot be controlled with a y degree of certainty therefore these tumors hould always be radically remo ed There is d ger f perforation in irradist ing inter at organ and danger of hemorrhage this occurring nee f in the carotid which was shown a hist logical ex mination to be free from tumor Sometimes la g doses seem to stimulat th de elopment of a remoma and probably in irradiatio from the c ter the ad um has a stimu lat g effect n the pemphery becaus of being weakened b dit c Intensi e irradiation always lead to marked d turbance ith general condition, such a loss of ppet t dullness and headache Irrad ation on the neck alwa caused vomiting The wound see ton f rradiated tumors caused rad um bur o th Lin which had not been uradi ated dire the and also uperficual necrosis of the epidernu The ults of the treatment thus far are v ry unsat f t v n the three cases out of the 53 where the tumor disappe red the time is jet too short to be ure of permanent recovery noperable tumors ( 1 o t of 36) radium may cause a decided impro ement. The authors believe that radium ha a certain value a an auxiliary means of

avoiding recurrence in post operative treatment but they do not think the ra hum treatment of operable tumors is ju tified. The use of an ag nt that has only a local effect in treating operable carcinoma controverts well founded scientif c prin ciples in the treatment of malignant tumors

M GFSM

Latzko, W and Schüller II: Radium Treat ment of Lancer (7 Rad mbehvudlang des krebes) II bla II k sch 1015 xx 1541 By Zentralbi I d gen. Cynak u C burtsk s d Crenzgeb

The author go es a description of seven cases of m I gnant tumors of the genital organs which were treated with ralum Generally only mail doses were used so to 60 mg ralum. In three cases th re was no n to calle effect on the use of th tumor There wa almo t alway an improvement in the general cord in a fin a case of carein ma of the overy as large as a m n fit the tumor leare trem adouds in a relat ly hort t me

The auth rma! a wne of excusons for ex min tion aft r th rad um treatments an I confirmed the microscopical find ngs of other auth is a folk ws (1) In 1 mmat; a and necro 1 of the urface (2) degenerati n of the tum r c ll gring a far a compl te absorption (3) increase in th c nect tissue and cha ges the 1 Lpt a rtain point the radium acts a a timula t abo e that as a poron to 11 11.

Operable cases hould be treated a thout operation only when the pecual circum tan of the make the probability of operative mortality whigh that the danger of I laving the operat n by radium treatment seems less. In noperable aves rad um treatment can ff et improvements hiberto undreamed f nl according to reliable report from the liter ture bord ring on complite recovery To train such res it as large doses as not ible mu t be used f as long a time a possible

II som

Radium and Mesothorium Treat Sticker A Their Theoretical Principle and Practical Lee in Treatment (Rada m ad Mo-Thre theoretischen Crundligen othoriumbestrahlung I und ihre prakt sche 3 ndung in de Heall, nde) Strahl ther p 0 3 i
By Zentrall I d ges Gynák ( burtsh d Crenzgeb

The y ray has fee been said can be compared dire tly with rontgen ray They are di tinguished from them by being a times a hard arıat in the capa its f ion ton and by the kind feet 1 yray this frm I rom th fact that th rontg rays be prod dat th

anticathode by cathodal rays and that the y rays always appear in association with  $\beta$  rays we may probably conclude that the y rays also owe their origin to the f ray This, however has not been proven experimentally

Weak irradiation causes only partial injury to the tissues but the may lead to a progressive de turbance in metabolism which may eventually end in the death of the cell. If the cell does not die it at 1 a t la comes sick as is manifested by the weak ening in its power of reguneration Radium and r ntgen ulc to heal lowly the first evidence of injury in the skin being hyperemia which appears early or late according to the strength of the arradia But es n if no erythema appears processes may be taking place in the cells of the vessels that

nly become manifest after weeks or even month The adothelial cells of the vessels are only slightly diff rent ated are embryome in character and are m re consitive than the skin Spanne the skin in leen arridiation by filtering the rays does not insure that the much dreaded late reaction will not take place because of mury to the vessels

Only a few observations have been pulli hed in regard to the absorptive capacity of in hvidual ti uses b t it i c riain that pathological tissues absorb the rail um and mesotl orium rays more than n rmal one 1 The gives rise to the so called lective effect of the rays which a a matter of fact ioes not ex 1. The effect extends to the normal Pathological tissues may become t wates also necrosed r may be replaced by connective tissue by a proces of chron c interstitist inflammation Path ol gical as well as normal tissues show different degrees of sen ti eness to the ray Leukæmic tissu and warts are the two extremes carcinom at a tissue i moderat is en its e and myomatous tis ue very slightly so. The effect of the rays is lway due to a primary injury to the cells but soun I tissues are able to protect them elves by forming new cell to replace the ones destroyed while path logical tis ues cannot replace themselves

The 1m of ra lioth rapy m st he primary cell death the can only be attained by strong prepara tion a d rad um and mesothorium preparat ons fulfil this requirement. Both are suitable for treat me t if used in suff cient quantities they must ha e an acts t) that corresponds to that of 50 mg pure rud um bromide Th do-age is generally measured

mill gram hours f r treatment of a carcinoma of the rectum a dose of 4000 milligram hours is necessary The dose is increased when strong filters are us d so th t only the y rays are available In very intens e irradiation evere disturbances of th general health may occur

# GYNTCOLOGY

### UTERUS

Infatrim O: Valignant Chorto-Fpithelioms (Berbachtungen über Chortoneph their m) If 1 a d gradi hi 4 1913 x 175 By Zentralbi I d ges ( yatk n Geburtsh a d Crearesh

The author gives detailed histories of five cases of

mal gnant chorro-epithelioma from his linke The first case was a typical metastatic chorio enthelioms in the vagina with no tumor in the uterus or eith r of the tubes Latispation was per formed in apparently pormal tis ue but there was prompt recurrence. In the two foll wirg months the operation was repeated twice death resulted lour and three quarters months aft t the first opera tion. The tumor in the vagina may be regarded as a metasiasis from a neoplash that developed prima-rily in the placenta and was discharged with it from the uterus or we may a sume that cells from a pro-liferating chomo-epithelioma penetrating the uterine veins, were torn off a d reached the vaginal veins

where they set up mal grant probleration In the second case there was an atypical chorloemthelions in the vagint in conjunction with a cystic mol in the lonly of the uterus which had eaten far into the wall of th uterus and in some places had broken through the serous coat In the lumen of the blood vessels were found Langerhans s cells and my set of syncy-tium of tarying sizes. The metastaus of econformal elements in the wall of the Lacina in this case shows that a cyatic mole ria) gi e fice to a chorio-epithelioma ( supravaginal amoutation of the uterus was done and three weeks later the vaginal tumor wa e cised Editeen months later the patient was complet by well

The third case was a typical advanced chono epubehoma in a cry mu b enlarged uterus with metastases in the tagina and pel i i sour Death resulted three hours after total extrepation through

the var na

The total vaginal extirpation f a typical chonoepithelioms with m to tases in the libia majora the liser and the lung following a d h ery at normal terry was apparently successful but the prittent

died ore 3 ar after the operate n

Another patient had I pical ch no epibel oma with metastases in the v ginz the pel i tiesues the liver and the lungs seve in nihs after the de livery of a mole curett ge an i a second one two months later Ten months lat r bdominal exterps tion of the uterus was I me The putient died soon afterward on account of her fready e hausted 1 SELES condit on

K ity H \ and \red J C. Cauterization of Inoperable Carcinoma of the Cervix of the Uterus R I Joh III pt as II p g 2 zzn 472 by Sag Gync & Olat

The results which the authors obtained by a thorough cauterization of an advanced carranoma of the certic of the uterus which later made possible a radical abdominal operation seemed to them to

justify a detailed report of a case

litteffy the case was one of advanced raminoms of the cervix of the uterus in which the large masses of caremomatous to sue could be torn away with the fingers It had extended quite out to the pelvic wall on the left si le On account of the apparent extent of the growth and wide involvement a radical operation was at first considered inadvisable to even attempt Therefore under gas angethesia & deep cautemention was dore on all sides of the growth About tw weeks later such a marked improvement in the condition was noted that a radical abdominal overation was made possible

This case seem to demonstrate very conclusively that a large part of the apparent invasion and induration was due to the inflammation which attended the exten we ulceration and the authors

conclude that

t The extensive radical abdominal operation offers the greatest hope of absolute cure in rationts suffert g from carcinoma of the ervis of the uterus I he percentage of operability has gradually acreased with the adoption of the radical abdom nal

operation 3 An exploratory operation is occasionally necessary to determine whether or not the radical

overation a to be attempted

4 Pel ac induration may be due to the following causes (a) To lirect exten ion of the new growth through the cervix inte the broad ligament on ither side (b) to a secondary infirmmatory reaction a one I both broad ligathe is and (c) to an tensive pelvic perit mit s in olving one or both broad liga hence the immobility of the cervix is not an infallable sum in determining wh ther or not a case it operabl

5 In advanced cases of carcinoma f the cervix a preliminary curetings and cauterization is advise able for the I llowing remons () I large portion of the final le new growth m; he removed through aging (b) it i an important procedure in the d infection of the agental field () The indus ation in the broad ligaments lue t secondary in flammators action tha be relieved causing the

new growth to become circumscribed and rendering a previously immobile cervix mobile George L. Beilby

Barrett C. W Th Carcinoma Question as It
Pertains to the Uterus Med Rec 9 3 1 nv
1 09 By Surg Gynec & Obst

In decus 1 g the practical aide of carcumma as it relates to the uterus the author expresses the opinion that carcinoma represents a tissue reaction against disease the epithelial profiferation being a tissue re ction against the infectious parasite there carcinoma: to be useed as local man festation caused by mechanical thermic or actine intration which stress as a means of introducing some me or originism jet unknown. The public and ply icians should be educated to the recognition and treatment of beingin conditions which constitute what the author call precancerous conditions such as crossons, eversions cystic degenerations fittored polype etc.

The author favors the abdomnail operation for curronms of the uterus and carries it out in the modern approved fashion. Where total removals is impossible in relie es the pain the hamorrhage and the d scharge by thorough cautenzation with the ordinary soldering iron. Action is a divised for temporary relie! The author lays stress on three points. (1) The enducation of conditions which if untreated might result in carenoma (a) Early radical removal when care nome has been diagnosed (3) The treatment of sid-anced importable care comen by trended carenoma sides.

S W BANDLER

Haendly P The Fffect of Mesothorium and Röntigen Rays on Carein ms of the Uterus nd th Ova les (Die Withung der Mesothor unund Röntigen trablen of das Carc om den Uterus und di Okancen) Stroklentsersp og Use By Zentralbi i d ges Gynak G b rich d Gernarch

The author makes the following observations as the result of a thorough histopathological examination of cancer tissue of the uterus and owners that allowers the tissue of the order to the control of the order to the control of the order to the control of the order to control of the control of the colls in k of mitoss and gain et ell formation and to a certain degree to changes in the character of the cells in k of mitoss and gain et ell formation and to a certain degree to changes in the character of the cells fall as ally epithelium) and finally by lary-objust and disappearance of the non nucleated the cells in the order of the cells fall of the order of the order

The connective tissue shows a ew growth to replace the destroyed cartinoma cells. This new formed connective tissue become selevotic and dege erates just as the rest of the connective tissue the amooth muscle trophus and disappears almost entirely and some of the muscle fibers show hyaline degeneration. In the ovary the primary follucies

are completely destroyed and the vessels show hyaline degeneration of the ad entity and media the latter is calcified here and there. From proliferation of the minns there is obliteration of numerous vessels the classic fibers swell and form clumps and the plasma cells and cosmophile leucoytes disspepar with the increasing selerosis and hyaline degeneration. The climical results of these changes remain to be seen.

P to T: Clinical and Histological Discussion of the Treatment of Cancer of the Uterus by Wertheim & Operation (Kluusche und patholog sch hastologische Beobachtungen über die Hesiung des Gebarmutterkrebes mittels der Wertheimschen Operation) Vielke z A. ck. f. path. Anal. ctc. Beil 1031 ccc. 470.

Berl 1913 ccst 470 By Zentralisł i d ges Gynak u Geb tsh s d Gren geb

The author reports 100 cases operated on by Werthems method 29 mild and 71 sovere cases Those cases are designated as mild in which the parametrum does not show any great degree of resistance the mob lity of the uterus is not much altered and the general condulion is good. In adposity myodegeneration arterioticleron etc the variously operation was performed.

Those cases are called severe in which a carrino matous crater is formed in which the cancer has maded the vagina and those in which the parametrium at least on one side is diffusely infiltrated as far as the prive wall. In these cases the uterus was not movable or only sightly on and the car was not movable or only sightly on and the car least the cases in the case in the case was not been considered in the case were operable. The results were Primary mortality 1st (1 mild 13 severe cases) free from recurrence for \$ 5 pass to 6 mild 4 severe) free from recurrence for \$ 10 a 1 to 2 years 1st (2 mild 13 severe) free from recurrence and the case of the case was not considered with the case of the case of the case was not call to severe). The control of the case was not call to severe the case of the c

These cases bastologically confirmed the fact that parametrum which clinically was very hard was frequently not carcinomatous but showed only in frequently not carcinomatous but showed only in faminatory indiffration moreover that in beginning carcinoma where the parametrium is asquite soft carcinomatous districted that even if the parametrum was free excurence to carcinomatous glands were found. This explains the recurrence in chincilly mild cases and the recovery of very severe o es. Since radical removal of carcinomatous glands is not noisable the cheft emphasis should be laid on the radical removal of the tissue of the reached with and vagins autili sound tassue is reached.

Gelst S II A Contribution to the Histogenesi of Sarcomatou Change n Uterine kibromyomata Am J Obt N Y 9 3 1 u 53 B) Surg Gonec & Obst

B) Surg Gynec & Obst
In a study of 25 cases of fibromyomata of the
uterus a d cervix Geist found sarcomata of various

types twelve times In addition to the recognized attes for the onipn of sarcomatious change the sinter stitual tissue of the myoma and the adventities and endothelium of the lymph and blood vessels Gest found that in two of his cases the sarcomatia grose from the muscle filters as has been described by Williams Pick and others N Sesout Reyeav

Freund II Etiology of Myonia of the Uperus (Zur Atologie der Uterusmyonie) Zirck f Geberich is Gynde 913 hzn. 75 By Zentralbi i d ges Gynak n G bort h s d Grenzgeb

From a historical review of the subject it is emit from the age at which syoms of the international frequently appears, v.z. yo to yo years, that the functional activity of the uterus is a share in the formation of myoma that menstruation and pregionally a great part. Feetal inclimions were first lound by Frend in adenomyoma of the wallian duct and inclusions originating from the endomatical review of the control of the co

Treund beheves from a stidy of once of ha cests that muscle proliferation in a beginning myonic causes the original elements connective tissue cells capillanes and first lepthelium to distippeer. The points of insertion of the tubes and the internal wall of the uterns are especially labele because there is a more presonanced interlacing of the muscle fixes. Local and grouping the fixes the control of the con

There is local predisposition in infantly increase because of the defective ulerne will and the epithelial elements deep down in the muscular layers. The same is true of locarmiast users the whole cavity must be ind bare by a fateral incusion through the angles. Large oriance infantisism) also probably play a part from the functional daturances that they create the disorders of the heart may be regarded as a result of incomplete development of the heart. Resears Sensible

Scott S G The Radiographic Appearances of Colcilying Fibroids, 4rck Résig Ray 19 3 n 245 By Surg Gyner & Obst

Scott calls attention to the necessity for caution in the interpretation of shadows in the regions of the kidneys weters or bladder. Though case in which other shadows inministed calculus are rare, we must prevertheless guard against error. In case of doubt means should be adopted to prove the shad ow to be a calculus in the urnary tract such as collarged injection upsague boughest and extremespic examinations. He adds to the long last of such shadows calculed fibrated of the uterns. Pibrotis shadows calculed fibrated of the uterns. Pibrotis

are usually very large before they undergo calcarous changes and are liable to give bladder symptoms, thus adding to the difficulty of the diagnosis

A good differential point is that vessel calcule are usually homogeneous, or consist of concernalayers while calcilying shroids throw shadons of uneven density somewhat resembling calcarous glands Lexcot Jacus.

Where F W 1 Increase of Temperatu e Duting Menstruation in Pulmonary Tuberculosis (Über menstruelle Temperaturstemeringen bei Lung entuberkulose) B u z King d Tubert 9 3 N

335 By Zentralbi f d ges Gynak Geburtsh d Grenageb

An increase in the temperature during the men strual period is of d agnostic importance as it occurs most frequently in tuberculosis according to Kraus in two thirds of all cases. A premenstrual increase occurs in 40 per cent. Subfebrile temperatures up to 90° F are of significance for the initial stages. The in crease in temperature before the menses is thought to be due to a progress of the pulmonary process which may be explained by hyperemia of all the organs including the lungs. If the rise in t inperature is only a slight one a resorption of old for is concerned if high an exacerbation of inflammatory for: The heat regulating center of the tuberculous patient is so labile that it is stimulated by exercise, psychic influences etc. Lasily excitable persons react much more readily with an increase in temperature pulse rate and all metabolic processes Intramenstrual elevations of temperature occur in 13 per cent usually on the first day and at times also continuing over the second The endometrium is the portal of entrance for bacteria. Often the picture is that of a eriously diseased person Cases of post menstrual elevations of temperature are rare amounting to about 24 per cent and are mostly subfebrile They are a very unfavorable sign in rare instances menstruation may exert a beneficial influence and cause a decrease in the temperature The author observed intramenstrual decreases of temperature in 11 5 per cent of his patients who had previously had subf brile and even febrile temper atures which continued afterwards to be afebrile This fact might be explained by the improved circu-lation in the lungs during the meases. The time of the ripening f the foll ries coincides with that of the increase in temperature. The increase in tempera-ture either before during o after mensionation corresponds to the t me of rupture of the follicle which may occur either before during or after the period Menstrustion in tuberculous women de serves particular attention as it may serve as an aid in diagnosis and even in prognosis

Glies, A E Pessaries Versus Operations, in the Treatment of Uterine Displacements Clin J 9 3 h 597 By S vg Gynec & Obst

The au bor d fines the types of cases in which pessaries of value and distinguishes the forms where operation is advisable Cases in which there is a clear indication for peasary treatment include retroversion of the uterus following confinement retroversion of the uterus in young multiparous women when the symptoms are of recent origin retroversion of the gravid uterus in the early months prolapse of the uterus when the penneum is sufficiently good to support a rang and cystocale with prolapse when the penneum is sound. The author takes it for granted that in all cases the retrover sion must first be rectified before the pessary is introduced.

The cases in which ther is a clear indication for operation include displacements with the uterus fixed by adhesions displacements complicated by ovarian tumor or tubal disease displacements complicated by fibroids, etc. Where retroversion is associated with a narrow upper vagina which will not bear a pessary and in those cases of prolapse of the uterus and vaginal walls where the perincum will not support a persury operation is indicated In cases of displacement where the pessary is not well borne especially in neurotic patients operation is advised total procidentia yields only in opera tion The author adds a third group of patients who are allowed to choose between the permanent wear ing of a pessary and the freedom from the annoy ances which may be associated from its use which freedom can be gained by operative procedure The operative mortality is practically nil operated cases show an improvement in the general condition of the patient in 90 per cent Twelve per cent of the cases have gone through labor without complication and with a permanently good position of the uterus The author believes that pessaries have their place but that improved technique and d minished mortality ha e led to the encroachment of surgical procedures on the d main of pessanes S W R NOLER

Zickel G: Incision Between the Spines for Alexander Adams Operation (Alexa der Adams mt Tuberculumschutt) Festralbi f Gynth 913

By Zentralb I d ges Gynth u Geburch a d Grenigeb
From its use in aftere cases the author again
recommends Lepmanan succious from one ayan
recommends Lepmanan succious from one ayan
recommends Lepmanan succious from one ayan
red the pubs to the other for the Alexander Adams
operation The view I the field of operation is at
least as good as with the ord nay inguinal inci ion
the skin siture does not lie in the same pile z as the
fasca autur— and it gives better commetic res if
fasca autur— and it gives
better commetic res
as its covered with hair of can without difficulty
be extended to muke a Pfannenstiel s incisson

Kats

li iden, F. C. The Treatment of Sterility by th Dudley Reynolds Operation Am J Obst N 1 913 ltv 964 By Surg Gynec & Obst.

Ilolden reports here the results of 43 cases of steril ty and dysmenorrhers operated by Polak by a comb nation of the Reynolds and Dudley opera tions. Reports could be obtained from only 40 of the cases. All subjects were selected as free of complications that might propartize the intent of the operation. Of the 40 who reported their conditions als were marined and 8 were suggle. In 34 cases dymenorrhora has been cured in 5 not relieved in 1 at was worse in all 85 per cent of those suffering from dysmenorrhora were cured. In eght or 25 per cent of the 32 marined cases sterlity, has been cured. All cases were operated during a period of 19 months preceding December 1922

N SPROAT HEAVEY

ADNEXAL AND PERIUTERINE CONDITIONS

Puech P and Vanverta, J The Rôle of the Corpus Luteum in the Fixation and Develop ment of the Oraty in Woman (Du rôle du corps j une dans la molation et le développement de l'eur chez la fume) Rr mens de synée d'ob i et de

pedial, 9 3, vm 236 By Zentralbl f d ges Gy k Geburtsh d Gre zgeb

The author tried to prove by the examination of human material Bornsch's theory based on von Frankel's experimental work as to the important part played by the corpus litteum in the fixation and development of the ovum

He collected from the literature 25 cases of ovan otomy luring the first two months of pregnancy In 20 cases both ovaries were rem yed in 5 cases the one containing the fresh corpus literam abortion followed the operation in only 5 cases

The authors conclude from this that the removal

The authors conclude from the that the removal of the corpus lateum in the first two months of pregnancy does not necessarily result in the interruption of the pregnancy but that the corpus lateum does have some segmicance. For they found that abortous takes place more frequently in the state of the state place more frequently in the corpus that the corpus lateum does have been depended in the corpus that the corpus and fourth (12 per cent) and fourth (12 per cent) that it occurs more frequently with bilateral overare otomy (25 per cent) than with unlateral ovararotomy (6 5 per cent) during the first two month.

KELLPR

Ries E Etiology of Periodic and Alternating we liling of the Ovaries (Zur Aisologe periodischer und altermerender Ovaralischweilungen) Zirier f Gebartis Graff 19,3 km 112 Zentralbi f d ges Cymik u Gebartis d Grengeb

From two cases which he has carefully observed the author calls stetenton to a purpone-complex which he designates as persodied and short control as a summary of the same climates the control to the co

and cause g the feeling of foliness and weight in the

abdomen and if there are pressure symptoms in the extremities radical operation is indicated

Outerbridge G W: Thyroid Tissue Tumors of the Ovary is J Obs \ 1 tors least 1032 By S of Gynee & Obst

Outerbridge describes manufely the case histories and findings of two new cases of thy road trause tumors of the ovary and has collected in tabulated form 44 cases from the literature. By tissue struns he was able to demonstrate that the thyroid tissue contained sodine. From his study of this subsect he concludes that

In certain ovarian tumors there occur areas of tissue which cannot be d stinguished hi tological by from that of the thyroid gland 2 Between tumors which show a complex tera

tomatous structure containing among numerous other elements a small amount of thy rood usasse and those composed solely of thy rood there is no sharp dividing line

3 Mil of these tumors are of simular genesis they

3 All of these tumors are of similar genesis they are teratomata, with varying degrees of suppression of the ertodermic and mesodermic elements

4 The large majority of these tumors are cin scally beings the few that are malignant show in most instances areas of unnit talable irregularity in their c llular structure or give other histological evidence of having assumed a destructive type of growth.

5. The thy roid tissue in the ovary is of no functional value at least in the majority of cases and three growths give rise to no symptoms other than those which would be produced by any type of a raina tumor of equal use V Swaar Haner

Oulesko Streganoff C Study of Malign at Degeneration in Cast of the Orum (lieutes rum Studum der malign a Degeneration det Orusi akysten) T Internat Cong Ved Lond up 1 A g By Zentralbi I d ger Gynal. G butths s d Grenageb

Proliferating cysts may be regarded as transitional forms between beings and mal grant tumors. The epithelial hyperplain which characterizes the group of tumors shows the redency to malegian degeneration. In the cyrit that b \u00e4 undergone malagnant degeneration we cut find instological evidence in the early tages that they be companied in prol fertiling cystomies.

Calmann A Treatment of Frotra ted Pebril Supportative Disease of the Adners (En Bettra r Behandl ng Land orthoft reberhalter e inger Adnerrhrankungen) Forindr d Med 913, xxx,

953 By Zentralbi f d ges Gynak u G burish d Ctenzerb

Formerly under the influence of surgery the treatment of pour tion of the adness as a 17 yradical to d v 11 c mervative unless there is some pressing indication to perit to interference. In acute cases, there is oper ent ference in without

operation In chronic cases where operation is sometimes necessary the most comerciality encodure should be chosen where there is a colletion of puts in Bouglas pouch means through the Vagina which also hastens recovery in abscesse stuated higher up. Incason princile to Fougari a comment of the state of the state of the state of demands secondary unter. The comment will use demands secondary unter. The comment of the the uterus and adment is not always to be avoided, but it should be done only when there is some complication demanding it such as perforating appendiction or myoma. In the februle purisher affections of the adments lasting for months and the owners which are difficult to open through the vaginas hard to draus embedded in indurations, adherent to the intestiness and often lying high sy in the that of fouch interest coloromy by Dibrissan

method may be used. The technique consists of incision from the middle of the antenor vaginal valid extends platerally around the vaginal portion of the uterus, dissection of the bladder and cuting of the broad the tumor is and have and incised the shocks with are autured to the edge of the vaginal wound a graining tube is inserted into the abscess eventy the

bladder replaced and the vagnol wound satured. The author has been able to avoid the openange the ves outern has been able to avoid the openange of the ves outern has been obtained and poughts pouch as does be published by the been by the been by the been been seen to separate the broad lagiment so that he could past as portated on in this way among them two purishent harmstoceles. See no patients reco end completely one was very much improved subjecting by and bject it you that he could have a radical operation aft r a year. The incusion should be free the dramage it he should be that, and left in place three to four weeks after the discontinuation of fever in conclusion in mentions that Stratz morphological interest colprisings. Mark Stratz from the continuation of the contraction of the contractio

Björkenheim E A Collagen in the Pallopian Tube at Different Ages (D's kollagen Gewebe und d T ha den rehedenen Altenperoden) Pastif lob all i kendi Helsongiors 19 3 N 4 By Zentrabhi i d ges Gynth a Geburah d Genageb

The a th rexummed for collegen in the tube by it rypas i decision method. Twenty-seven case a re examin di from embryoss best born infants child en and adults up to 7, yearn of age. If four direct method is a fine on the tube allied with an extremely decise heat. A of moe onnectic it usuas fibers to decise the seven of the seven

Steidl K

After the beginning of the chinacteric instead of the fine network there is a network of clumps of apparently swollen fibers. In the muscular layer the connective tissue fibers run concentrically around the lumen in a wave-like manner They are connected directly with the connective tissue in the mucosa and with increasing age become denser so that after the beginning of the chimacteric and even during the period of sexual activity regular bundles of connective tissue may be seen In the subscrous coat nothing can be seen but a tangle of connective tissue fibers of varying lengths around the numerous blood vessels growing denser with increasing age. The epithelium is separated from the subspithelial tissue by a limiting membrane The author also examined the elastic tissue of the tube and found that elastic fibers are generally found before the age of sexual maturity only in the vessel walls and that they increase in number later They are to be found as fine isolated fibers in the subserous and muscular layers They generally decrease in number after the menopause

Holzapfel & : Techn que of Tubal Sterilization (Z r Technik de tubaren Sterilizatung) Zischr f Gebert & Gynèk 913 kx v, 189
By Zentralbi (d ges Gynak u G b rt h d Grenzgeb

Holzanfel proposes the following procedure for

temporary sterilization

After opening the abdomen the tube is caught with forceps a little to the lateral side of the middle and cut through n the median side of the forcers together with about 1 cm of the broad ligament The uterine end of the tube not including any perstoneum is caught with sharp forceps and the peratoneum dissected off for about 2 cm. The knife generally has to be used to help in this in order to avoid injuring the peritoneum. The folds of the broad ligament are separated for a d stance of 1 to a cm vary g accord g to whether they can be tend ly separated without injury to them of the tube is ligated with a fine cateut suture and cut off short th n beginning with the uterine end of the tube the peritoneum is sutured co tinuously and the serous surfaces approximated as far as the lateral end f th tube with a sharp thin round smooth needle. The lateral end is I gated in the depression made by the fo ceps so that the opening remains outside the peritoneum If the occlusion i to hold it is naturally ery important that the peritoneum should not be torn. Holzapfel thinks t is bett r that the I teral piece of the tube with both open ngs hould he within the peritoneum than that the median pening should be lowered This operation has been used in four cases all of

them mo e than a year ago Conception has not taken place in any case and there has been in opportunity to perform the operation for restoring This would consi t in drawi g up th fertility lowered e d of the tube spl tting it hold g it ope with tw utures and suturing it to the I teral en I Lours

Round Ligament (Zur Kasustik der primaren desmorden Tumoren des Lagamentum rotundum) Zische f Geb ith w G; db 1913 kmv 386

By Tentralbl f d ges Cynak G burish d Grenzeeb

After a short review of the literature of the sub-

Primary Desmold Tumors of the

ject in which about 30 cases are reported the author describes a new case of his own

The patient a 41 year-old III para had for two vears been troubled with dismenorrhora and fre quent desire to urinate and had noticed at the menstrual period a swelling of the abdomen over the symphysis On examination a hard median tumor was found reaching above the umbilious the uterus lay behind it movable and apparently not increased in size. A diagnosi of solid ovarian tumor was made On operation the tumor was found between the recti covered with the very thin fascia which was closely adherent to the name tal peritoneum which was torn on removing the tumor The pedicle of the tumor ran toward the internal inguinal ring the inguinal canal being obliter ted The uterus and adnexa were normal and the left round ligament passed through the internal inguinal ring directly into the pedicle of the tumor. The tumor had the form of a loaf of cheese 2 x 0 x 13 cm in ize weighing 2680 gms The microscope showed it to be a typical f bromy oma without degeneration. The patient had an un eventful recovery

It wa one of those rare cases of tumor of the round ligament of considerable size developing within the inguinal canal and showing the yet more rare growth upward between the muscles and the fascia. The majority of these desmoid tum is of the round bgament grow outward through the neu nal canal

### EXTERNAL GENITALIA

Leonard V N The Post-Operative Results of Trachelorrhaphy in Comparison with Those of Amputation of the Cervix S t G a & Ob # 93 By Surg Gynec & Obst 35

\ complete post-operati e history was obtained n 67 cases in which the cervix hi l been amputated or repaired by Emmet's trachelorthaphy and the results of the two operations contrasted as to their therapeutic efficiency and as to their influence upon the subsequent marital history

The author notes that although post-operative hemorrhage is by no means a common after amou tation of the cervix - 5 per cent - it is of very rare occurrence after trachelorrhaph). Furthermore the hamorrhage after amputation of the cervix may occ r as late as the twenty seventh day in the con lescence while such a delayed complication

very rare f llow g Emmet s operation. In non of the cases of trachelorrhaphy was it necessary to resulture the cervix to stop hæmorrhage while after amputation of the cervix this became imperati e in six instances

About 40 per cent of 167 cases reported a noticeable improvement in the general condition whether the plastic operation on the cervix was done alone or in combination with other operations improvement in the weneral health is attributed to the removal of the certify as a focus of chronic infection in the cases of empiration of the curve but it is claimed that trachelorthaphy can only exert an indirect influence on a chronic endoceracitis in rendering it more amenable to treatment presence of a marked andocrewicity as considered as much a contra indication to the performance of trachelorrhaphy as an indication for amoutation of the ceres. Furthermore the cervix presenting multiple or stellate facerations should always be amputated trachelorrhaphy being reserved for those cases showing one or two discrete lacerations

Of the 167 cases Se ner cent complianed of a vacuual discharge befor operation Mice emputs tion of the cervix in over 03 per cent of the cases the lessenvihoes either disappresend entirely to 62 s ner cent of the cases or was noticeably durum hed in amount in 30 per cent. On the other hand following trachelorrhaphy the percentage of cures was much lower the rate being 42 per cent, the per centage of cases in which the operation showed no effect on the ducharge being more than twice as high In the latter from of cases the endoceracities present was usually only very slight and leucorrhora a relatively unimportant amptom whereas in the a researchy unimportant yoursom whereas in the former group the reverse was true. It is claimed therefore that although the repair of a lacerated cervix may render a mild grade of endocervicities more amenable to treatment trachelorrhanhs can not be considered as having any chreck effect upon the infection present other than t aniven it and that the presence of a marked endocervicitis should be considered a contra indica tion to its employment

Of 148 case of lacerated cervas 118 or 80 per cert had dysmerorrhera before operation In 62 per cert of these cases there may be called reduction in mentional control of the certain properation follows the certain properation follows of the cerva in 30 per cent the dysmerorrhera on a cured or improved and the same result obtained in 70 per cent of the cases in which trachelorrheraphy as performed. The conclusion is reached that lacerations of the cerva bear some reached that lacerations of the cerva bear some leftine relationship to dysmerorrhera in multipare

In order to compare the fertility of the patients inter the two pertainon only those see us which the occurrence of pregnancy would naturally be expected were used 1: married women under a years of age at the time of operation who had borne or or more children pervous ly and upon whom no operation had been performed which who will be occurrence of impregnant to a per cut report of the performed properties of the contract of the contract of the person of the cervic who will be the performed with the person of the cervic who will be the performed the person of the cervic which is the performance of the cervic who is the performance of the person of the cervic who is the performance of the person of the person

cervus is explained by the frequent occurrence of cicatencial account and more time operation at being cicatencial account a long mounted out that the currently followes pounted out that the circumstance of the operation occupies a pine more of the operation occupies a pine of the operation occupies and the operation of the operation ope

The influence of amputation of the cerves upon the course of subsequent pregnance, as even made while tracheloritaphy is apparently without effect in this respect. The insidence of pressure de livery and abortion is more than doubled after amputation of the cerve less than half of the pregnatures occurring after this operation being the course of the course of the band, the course of meranner after. On the other hand, the course of meranner after.

one way or the other

More than 60 per cent of the full term delices after amputation of the cervit were difficult for lowing trachelorrhaphy. So per cent of the full term deliceries were described by the patients as easy labors. The author claims that the indicate its winch accounts for the high percentage of stell ity in the former group lakes use explains this sensor influence upon the course of labor. In properly selected cases the therapeutic efficiency of Emmest ranchelorrhaphy; quite as high as that of amputation of the cervit and since the many serious objects expected that the company of the conducted the operation of choice for women in the childbertings period.

Muret M Symptomatology of Vesicoveginal Flatulm (Zur Symptomatologie der Blasen-Schaderfisteln) Zische f Geberish Gynik 19 3 kmr 209

By Centralbi I d ges Gyazi, a Gebartsh d Grenageb

In four cases of vesicovaginal fistula, the author noticed an interesting phenomenon. The patients could told unite voluntarily in a stream through the vagina from a small esicovaginal fistula. There was a partial continence of the bladder and there was no collection of urine in the vaging as frequent ly hangens. When the bladder was filled the ten sion of t walls the abdominal pressure and the contraction of the detrusor muscles opened the small fi tule easier than it could overcome the resistance of the sphincter of the bladder which explained the voluntary toiding of urine through the vagina The a thor believes that this continence is explained uluntary contraction of the muscles of the by th pelvic floor which succeeded in closing the fistula temporarily there was, moreover a certain tomethy of the bladder muscles to be considered

In all these cases the fistula were relatively high they were small and their edges were not shift but smooth and pli ble. Moreover at the level of the fistular the mucou membrane of the vagua and bladder was separated by a thick layer of tissue so that the fixtule opened into a small cavity. Kezzar Koch J A The Dry Treatment of Leucorrhora and Cervical Erosions. Ill noss M J 10 3

The author states that the etiology of leucorrhoxa b endometritis endocervicitis cervicitis and vag mitis, and that the underlying causes may be ronorrhora tuberculosis carcinoma chlorosis con statutional tuberculosis, or construction

He thinks that treatment applied to the interior of the uterus is mal treatment also that douches carry germs to the upper portion of the vaginal canal and by softening make reinfection possible

The author a treatment is as follows. The vaginal vault is exposed by a speculum and wiped dry with rause pledgets then a drachm of the powder 13 poured into the vagina and dusted over the cervix and over the vaginal walls as the speculum is gradu ally withdrawn At the next treatment the moist masses are removed and the powder reapplied This treatment is repeated on the fourth eighth tenth fourteenth and eighteenth days

In vagnitis in children a glass syringe is used to introduce the powder. The powder consists of aluminum acetate one part Laohn two parts and powdered talcum two parts EUGENE CARY

Wi ner S. High Frequ ncy Cauterization in th Treatment of Urethral Caruncle V Y 9 3 xevm t t5 By Surg Gynec & Obst The author recommends this method of treatment

very highly the technique of which is as follows The caruncle and contiguous mucosa are anaes thetized by the surface application of a 5 per cent cocaine solution. An ordinary insulated wire electrode is used with a spark of medium intensity. The tip of the electrode i held about one-eighth of an such from the surface of the growth and the spark is passed successively over every part of its surface the normal mucosa should be avoided. The entire application need not take longer than one minute to pan whatsoever a experienced by the patient provided the cocaine has had sufficient time to act There is no reaction after the effects of the cocaine have worn off in fact where dysums and tenesmus are present th very first urination following the

treatment is less painful than those preceding t To sum up the advantages of this treatment for urethral caruncle are () The ease and painlessness of its application (2) the immediate alleviation of dy surra and tenermus (3) th absence of local reac tion and (4) there is no necessity for confining pat ent to bed as after excesson and suture (s) the complete statute ad nt gr m of the mucosa FOW RD I CORNELL

Fromme F Di rticul of the Urethra (Uber Harnribrend vertikel) Zisch f Gebertek Gradk 9 3 km 43 By Zentralbi f d ges Gynak u Geburtah s d Grenzgeb

From a study of the literature of the subject the author believes that no authentic case of congenital diverticulum of the urethra has been published and that therefore they must be exceedingly rare Most diverticula arise after contusion of the urethra dur ing labor when the mucosa and submucosa are torn and a hernial sacculation is formed in which urine collects after every micturition The diagnosis is often difficult and can only be made after repeated careful examinations

He reports two cases of his own where incontinence developed after delivery caused by post traumatic diverticula. In one case there was a diverticulum mto which a supernumerary ureter opened. He concludes that this diverticulum must have been a remnant of Gaertner's duct

Von Franqué O Prolapse of the Ureter Through the Urethra with R marks About the Histol ogy of Œdema Bullosum (Uber den \ riall des Harnle t ra durch die Harnröhre nebst Bemerku gen gur Histologi des Œdema bullosum) If natschr f Geburt k u Gwakk o 3 xxxvui 115 By Zentralbl f d ges Gynäk u Geburtab d Grenzgeb

In a case of ureterocele in a young woman re ported by the author the prolapsed portion pro truded into the urethra and had become necrotic The case was cured by a suprapulse cystotomy Cystoscopical examination revealed a papilloma which might have been the cause of the prolanse A bullous cedema which surrounded the ureter was composed of ordematous papillæ analogous to the hydatid mole. The disease occurs most frequently with congenital atresia of a double ureter only nine cases being found with a simple ureter among 3 such cases It is seen also however in congenital stenos s of the urethral ostium followed in the course of years, by an atresia. To the latter class belong the recently operated cases all the former ones soon died

The chief dangers attending the disease are ascending infections of the urinary ducts from obstruction of the urethra necrosis and loughing of the prolapsed structures (cystitis hydrone phrosis pyelitis) It is especially dangerous during pregnancy in consequence of a swelling of the mucosa So far five cases have been cured by opera tion although a correct diagnosis was not rendered in a single case. The diagnosis can be made by cystoscopy only when a ball-shaped elevation exists at the irreteral termination, which is covered by a normal visceral mucous membrane and which enlarges or decreases corresponding to pressure and nosition. As these signs are absent in cases of rup ture of the ureterocele bullous cedema etc. they are frequently thought to be tumors. The treatment in extense e prolapses is suprapubic cystotomy com plete removal and suturing of the ureteral and visceral mucous membranes The results of this treatment are very satisfactory

Smaller prolapses are treated by endovesical incision of the stenosed ornice. The vaginal method with incision of the posterior urethra according to Simon is rejected on account of the difficulty of bringing into view the affected structures and the liability of interference with unnary confinence. The author considers the stenoses an entrested development because during fortal life the ureteral oster are at first very narrow and later under considerably.

Minakuchi A. Urinary Fistulae (Über Harafstel.) Be tr. z. Geband. Gwald. 1913. zwa 3.7 Br Ze Trubb I d. pes Cynak u Geburt. h. d. Gerangeb

In the Ireiturg Cancological Chair from October 1907 till March 1912 there were 45 cases

of urmary fittula 34 of them being fistule of the bladder and 11 of the ureler. The cases were tabulated showing are cause and preceding operations for fistula time of appearance of the hatula, kind and size of the fistula operation result and further

Of the bladder fatule there were three purposely produced through the abdomnth sail 15 from obstetracal myunes and 16 generological ones Of the obstetracal myunes and 16 generological ones Of the obstetracal myunes is were in head presents itoms with 8 forcety operations and perforation Whether it was caused in induvidual cases by pressure nectors or by tearing could not always be deaded—a mornalies in the nelvis were sometimes

the cause

Of the 16 gy necological cases there were 12 post
operate e bladder fi tube (a crebbral fi tuba and 15
seconographi fistular) y purposcopy produced fistula
through the sholomural wall and 1 firstula from the
peratry. The fistula organization for structure of the
cervar once after antenno colporathably twice
cervar once after antenno colporathably twice
start vaginal and is sholomural total extrapation.
Suture is the only treatment recommended by the
sulter for full. Those occurring during labor
should be utured immediately otherwise there
hould be a delay of any only weeks after delivery. Trequently a careful prehumbur. To wide
the vaginat which is offers contracted paraway
must be used in the smaller fasted formanion
files and suture may be used. The offers of fields are received and the angual will desected
flush are received and the angual will desected

from the bludder outw rd o 3 to 1 5 cm.

The suturing if poss ble should be done in three layers. Larger fistule r defects to the urethra are covered by transplantation of daps from the vagnal microus membrane. The agnal defect is repaired by unture or tran plant toon of daps from the

neighboring its up.

In defects of the cervix the antenior vault of the veryinx is split trains ersely and the bladder separated from the cervix by the formation of days. Given the abdomain route was chosen errors and the broad parties of the field of operations was brought outwide the personnel of the field of operations was brought outwide the personnel of the 1st cases 31 were treated by operation 2 or or 65 per cent were curred and

2 of 87 per cent improved. In these cases the treatment is not yet finabled. There were 17 case of firstila of the urrier, which were also analyzed as of firstila of the urrier, which were also analyzed as to location origin etc. Of the operation in the case of the urrier in one case being without result. As a prophilation on case the case of the case

## MISCELLANEOUS

Bell W B: The Relation of the Internal Secretions to the Fernale Characteristic and Functions in Health and Disease Bra M I 1913 II, 1274 By Surg Gynce & Obn.

Discusing first the production of the female characteristics and functions the author behave that only where the whole endocrome system to merrical harmony and acting efficiently may the genitalia become functionally actine at puberty on cond tion of course that there organs are morphologically, normal at borth. Thyroid or pituitally assufficiency may cause the genital organs to remain unfantile and discusses of these structures may cause retrogression in the genitalial seven after they have functionated normally. The development of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as a result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the result of the withdrawal of the hymnus and as the results of the withdrawal of the hymnus and as the results of the withdrawal of the hymnus and as the results of the withdrawal of the hymnus and as the results of the withdrawal of the hymnus and as the results of the hymnus and as the hymnus and as the results of the hymnus and as the hymnus and hymnu

That the ovary alone is not responsible for the changes at puberty of for the integrity of the guitaln as shown by many facts both experimental and of influence here and Bell regards this body as one organ though which portion of it possesses the companion of the possesses the companion of the possesses the third of the puber of the puber of the puber of the third of the puber of the puber of the puber of the further mileonee not to be dargarded

Taking up of magements in the development of the gentral grans and their functions the author first discusses precocous puberty. While in the male the appears in conjunction with discusses of the suprarenal a d pinest glands, in the femilie it is seen fleness where the overy as affected. Hence fell argues that the phenomenon mg this sessorat

of only a th tumors or hyperplana of the gonals. Delayed pointry on the other hand, being due to so many causes apart from the internal secretions a with disculpt price no result from outsin discussion and the secretary of the control of the formal points of the final delay of the final gental organs. Attentions us called too to practically discussion with the owners are the factors most concerned in the final development of the fermals gental organs. Attentions us called too to practical final during the period of change before twenty years it.

is impossible sufficiently to control metabolism in order to produce the effect desired

Under the general heading of derangements of the fully established gental functions the question of evaruan insufficiency is discussed at length. While there is no real evidence that ovaluation does not occur during pregnancy or that ovariant secretion agent from that of the corpus luteum is na beyonce likely suggests that it such is the case other organically of internal secretion, as the thyrond and priuting may be subjected to considerable strain the original cause of byrepriasa in these structures. The author strongly favora sutogenous ovarian grafts as the major one of any use thin flat process whost cortex being employed. Ovarian transplantation at their so only a mituation of the artificial menorause

Excessive ovarian secretion is expressed by an increase in sexual activity in certain types and by osteomalica. It is probable that very soon in jections of supraternal and pituitary extract will be found efficient as controls in such hyperfunction.

Bell does not concur with the theory that eclumpsia

is caused by thyroid insufficiency

Pututary excess is more apt to produce mascuinity and amenorhoes in woman than excessive sexuality as it does in the male with a strong tendency toward stentity. Pituitary unsid cency shows expression also in amenorihoes or scanty menstruation. As far as the genitalis are concerned this is also the chief symptom in functional disturbances of the suprarenal glands.

CAREY COLBERTSON

Herzog, H. Involution Forms of the Gonococ cus Neisser and Their Rôle as Intra Epithelia! Cell Farnaites (Über die Involutionst men des Gonokok Neisser und ihre Rolle als mitmepuheinle Zellparasten) isrkow Arch f palhol Assi k. Berl 033 cct. 235 By Zentuhl I d ges Gynalt u Gebuttsh s d Grensgeb

By Zentralbi I d ges Gynäk u Geburtsh s d Grenzgeb The dissertation of the author considers the gonooccus from its biological pathological and clinical

occus from its biological pathological and clinical behavior and confirms the observations of the earlier investigators especially Werthern Chronic groundried sease processes and due to the fact that gonococc are devoured by leucocytic microphages is well as by mucous membrane epithelia; edit The phagocytosis does not necessarily lead to a complete annihalation of the germs but may stop when the bacterial elements are atill vasible although morphologically deformed and weakened. The result as a condition of symbiotic adaptation between exhibited and in completely bacteriolyzed germ exhibited the general conditions of the control of the morphology of which is munitely described every the control of the

Porchownik J B Transference of Pain in Diseases of the Genital Organs (Ubertragen der Schmerzempfindungen bei Erkrankungen der Gentalsphäre) Il seiteler f Geburich u Gyndh 1913

gavin 719 By Zentrajbi i d ges Gynäk u Geburtsh s d Grenzgeb

Disease of the female genitalia are accompanied by reflee pains in various locations particularly in the lower extention, and the pelves. The pelves the pelves are personal to the latter. The reflee pains in the latter. The reflee pains in the to called endoctrists dolorous are especially severe but they also occur in cophonits retroflerion of the uterus er. These pains are caused by anastomoses between the plexim of the body of the uterus and the first and second simula nerves from the sacral deviation.

Pain in the bladder the so called cystospasm and in the kidneys and gall bladder are also explained by anastomoses of the sympathetic plettues with by anastomoses of the sympathetic plettues with each other and with the plettus of the body of the uterus. This also gives ruse to the reflex cough (uterine cough of Auvard). Attacks of neuralize pain in the region supplied by the trilacial are interesting. Only certain areas of the skin of the interesting. Only certain areas of the skin of the The intrinsion of the great organization of the trilacial areas of the skin of the trough the solar plettus of the certain plettus of the sympathetic and from there to the posterior roots of the spanal nerves and the trifacial.

GLASHURG

Albera-Schonberg Rbntgen Ray Treatment in Gynecology (Rongentherapse m der Gynakologie) Tr I ter al C ng Med Lond 1913 Aug By Zentralbl I d ges Gynak u Geburtsh d Grenzgeb

Deep \(\lambda\) restinant in gynecology arose from the fact that the rays have a decodedly harmful effect on the male and female sexual glands. The effect on myoma is primarily exercised through the owares but in a considerable percentage of cases there is a direct effect on the tumor cells similar them to the similar of the considerable percentage of the town. The symptoms crusted by the myoma im prove markedly or disappear entirely. The himmor range is changed to the normal mensitual type oligomenorrhics or amenorrhics is obtained and the general health is improved.

The symptoms of the artificial menopause are generally suid the percentage of complete recoveres high permanent results are certain an suitable cases high permanent results are certain an suitable cases and the suitable of myomas result treatment and not all are suited for V-ray treatment. The macrow can be broaden interpretations of the indications and broaden suitable cases are indicated as the suitable of the suitable cases are excluded site operation than before The danger to the skin may be reduced to a minimum by suitable technique. The future must decide whether fate technique. The future must decide whether fate

SCRURER injuries are to be feared

# ORSTETRICS

# PREGRANCY AND THE COMMICATIONS

Huffman O V: A Theory of the Cause of Let plc Pregnancy J Am M A: 1913 | 1 2 30 Br Sutv. Groce & Obst.

The author described a very remarkable specimen of ectonic presumey removed at nermosy. The entire uterus tubes and manes were examined with a view to finding some confemation of the inflammation or obstruction theories. The results intammation or obstruction theories. The results were negative but he found two supernumerary but ru imentary failopian tubes one attache to each of the fully descloped apparently normal tubes which en hied him to offer an explanation for the tubal pregnancy. He inferred that early in the embryological development of the individual there was a luni cation of the Müllerian ducts and that, with the subsidence in the growth of one nair three portions which should have formed a second uterus with all the factors that determine an im plantation area became fused as rests" within the walls of the tubes which went on to full de velopment Such a rest" permitted the ovum to embed His working hypothesis w s thus formed tiz that ectopic pregnancy is determined by an anomalous embedding area.

In further support of his theory the author has examined sixty-eight perimens of tobal pregnancy and with the difficulties of examining torn and often incomplete material with the 12 k of distinguishing shreds of the use choronic ville blood-clots etc he found a malformation in 54 per cent of the cases

a follows

5 % had large irregular dis et cula which could not hav been aused to the growth of the ovum . It e h l'accessors ostia

Three wer associated with anomalies of th opposite tube I wo presented small 3sts to which were

attached accessors tubes Two had accessory ovaries

One had an anomalous tubule attached to the broad I gament

Five had accessory tubes hine were simple dilatations of the tube by

the growth of the ovum o One showed a most unusual anomaly a tube within a tube

Three showed nests of decidus like cells

All of the anomalies found were examined mi croscopically in order to prove definitely their exact nature A true decidual membrane was found in none of them. The ovum when still is rilly was found embedded beneath the mucosa, which with the blood-clot covered it on the side next to the lumen of the tube while on the side next to

the musculans at was attached to a neh later of cells denied from the trophiderm which had to vailed the maternal tissues. This endence besides the negative findings in regard to any obstruction or inflammation is sufficient to warrant the establishment of the anomalous-embedding atea theory the most longed of all the embanations area theory the most topical of all the expansions for ectopic pregnancy. It is the most logical be-cause it rests pursarily on the mutual relation of the fectuadated orum and embedding sit. The other theories with the exception of Westers, lose webt of the very essential mutual relation which obtains in the normal physiology of embed ding. The theory of anomalous embedding area is not out of harmony with all the faces both clinical and nathological. It is not illogical like the m flammation theory inflammation which is a rec ornized cause of non-embedding in the utrus becomes, according to the incon istent theory an auxiliator of embedding outside of the uterus. cording to which if it were consistent a fecundated ovum, caught in the cerest pten or varing should to on and embed there EDWARD I. CONSTIL

Wall F P and Cullen F K: An Ovarian Pres nancy Located in the Grantian Folici 5 2 Gree & Ob 1 1913 xvl 658 Fly Surg Greec & Obst.

The author reports a case of ovarian pregnancy in which an ovum six weeks old was found within the grantien follicle. The disgnous was deficult on account of the musleading statements of the putient. The specimen s of great scientific value for it a shown couch usely that the owner had lodged teelf—the granfian follocie undoubtedly n th ne from which it came indicating that the sperm mu t ha entered the follicle after it had ruptured. The fertilized ovum then found lodgment in the f linke around which the corpus luteum le el ped 's in other cases which have been reported no decidis was formed which demonstrates fully that the decidia is not of embryonic origin

its L. Gaivanic Irritability of Muscle in Pregnancy and Tet ny During Pregnancy (Cher gaivanache Verennsychereghartest and oher Schwangerchaltestanie) If actes sed il kassie on in 24-

If hearly o y is \$40 By Zentralbi i d gra Lynak Leburtah a d Grenzgeb

Having burned that tetany is characterized by an increased mecha ical and electrical irritability of the peripheral nerves and that this disease is particularly frequent in pregnant women Seits decided to subject the galvame irritability of the nerves to a ac urate test

He found that the cathodal cloung contraction of the median nerve in non pregnant women appeared on the average with 13 milliampers and in only 10 per cent of the cases did it appear below on ma In pregnant women on the contrary it appeared below on ma No per cent of the cases Therefore in 80 per cent of all pregnant women there is a slight increase of the galvanic urtiability. This reaches the highest degree during labor and dasppears gradually during the purepenum. In about 10 per cent of cases during labor the cathodal closing contractions appears at a 0 to 0 o ma that is there is what may be called a subtetanic condi-

That these results have a certain degree of principal value is above by the control value is above by the case of pregnant woman whose symptoms were slight at first and who was considered stathmatic at the time. Later when muscular symptoms began to appear pronounced nervous stathmat and other nervous symptoms appeared—the result of her subtetaine condition. In her case the cathodal closing contraction of the median appeared at 0 ma. The author believes that what is commonly called the nervousness of pregnancy is often really a condition of subtetainy—he calls it parathyrotoxons Therapeutically pantipon has been used with good effect and thyreoidm with somewhat less effect. BORELL

Geilhorn G Exophthalmic Goiter and Preg nancy Am J Obst N Y 913 lvvu 1132 By Surg Gynec & Obst

Gelihorn discusses the effects that pregnancy has upon exophthalmic goiter and comes to the following tentative conclusions

The complication of pregnancy and exophthal must gotter while comparatively slight in some cases may constitute a grave danger to the life of the mother

2 If the manifestations of Graves a disease are aggravated in spite of medicinal and other con servative treatment interruption of the pregnancy is indicated without delay.

3 The quickest and therefore best method of interruption is by means of vaginal casarean section 4 Spinal anarchiesa is preferable to any other form of anasthesia in that it reduces the dangers from any

of angestness in that it reduces the dangers from any operation on patients from exophthalmic goiter 5 Girls with well developed by perthyroidism should be advised against marrying

6 If Graves disease has appeared after marriage conception should be pre-ented

7 If vaginal section be performed tubal sterilization should be added N Spao z Hearzy

Eckelt k. Kidney Function During Pregnancy (Über de Nierraliunkton in der Schwangerschaft) Etstir f Gebertin is Gynalt 193 Irm 434 B) Zentralbl i d ges Gynalt Geburtah a. d Grenzgeb

Eckelt tested the kidney function as to the excretion of water sodium chloride and nitrogen in three normal pregnant women and in seven cases with the kidney of pregnancy two of which ended in eclampan. The water salt and mitrogen content was determined approximately according to tables and used to determine the balance of metabolism together with the average values of the introgen of the facers and the water excreted as perspiration. To test the adaptability of the kidney it was over londed with 1 to 15 filters of water 1 ogns salt and so guas artifacts ures, continuing so guas mitracarried out.

The examination of the kidneys of the healthy preparant women by these methods showed no functional difference from those of healthy non pregnant women, neither was any increase in duress noted toward the end of pregnancy. The kidney of pregnancy diagnosed from the high albimm content of the urine and the appearance of ordems during the second half of pregnancy showed manificancy in the except half of pregnancy showed manificancy in the except half of pregnancy showed manificancy in the second half of pregnancy showed manificancy in the second half of pregnancy showed manifold has been also been decided to be prefixed to the prefix of the

In both the cases complicated by eclampass there was a saining of the salt excretion which in the future may be regarded as a sign of an approaching stack of eclampass. Because of the unsufficiency of the hidney of pregnancy for the exerction of vater and sait the flund given should be limited and the duct sait the flund given should be limited and the duct because of its high water content. The results of the cases treated in this way disappearance of the ordern and fall in the blood pressure argue for the correctness of this theory.

Stoeckel Pyelitis in Pregnancy (P) hus gra idarum) Muschen mel Wek kr 9 3 1 47 By Zentralbl f d ges Gynik u Geburtsh s d Grenzgeb

The author reports two cases of the above examination of the sume of the first case showed in fection of the urmary tract with colon bacilla and a diagnosis of pychits was made the symptoms were erp severe and the general condition was bad, the kidneys were very painful on pressure and increased in size. The pregnancy was in the fifth month and continuous irrgation of the kidney for weeks with intervals of a day or two resulted in recovery and maintenance of the pregnancy. This case shows that then in almost hopeless cases shows that then in almost hopeless cases are the statement of the statement of the things of the statement of the pregnancy of the liddery. It is required the properties were often in order to overcome the intoxication by removing the badly infected urns.

In the second case a mutaken diagnous of pentyphitis which is very frequently confused with system and the second case of the second to kidney sufficed in this case. Early diagnous is the most essential thing to success in curing the pyelints and maintaining the pregnancy. In any februle condition with local tenderness on pressure in the region of McBurnet's point and pain in the kidney. region either on one or both sides, there should be an immediate bacteriological examination of unine removed from the bladder with a catheter If colon bacilli are found in pure culture or associated with other bacteria the diagnosis is tolerably certain cathetenzation of the wreters will remove all doubt It is doubtless true that expectant treatment with rest on bed and regulation of thet often succeeds but it is just as certain that during the delay of the expectant treatment many cases get so much worse that the kulney tissue itself becomes diseased and either surgical operation on the kidney be comes necessary or the pregnancy ends in abortion Success in guarding the kidney from infection and maintaining the pregnancy can only be secured by changing at the right time from the medicinal and dictetic treatment to irrigation of the pelvis of the Lidney RUNE

Essen Möller F Present Treatment of Eclamp ala (Linge Worte über die Ekismpsefrage bestzotane) Allm som List mids Stockholm, 913 x 84 Ry Zeutralbi i d ges Gynsk u Geburtals u d Grenageb

The author gives a short review of the different theories in regard to eclampia he believes it is an intoxication originating in the ovum which should therefore be removed as soon as possible. He points out the fallecies in the arguments of those authors who oppose prompt delivery and believe in going back, to old conservative methods of treatment

In 31 cases he obtained exact information as to the time of the appearance of the first symptoms The shortest was one day and the longest eight to man months before the onset of the convulsions In the cases of eclampsia during labor there were distinct symptoms at least 10 hours before delivery Although he believes decidedly that it is an intoxication he has seen mild cases recover spontaneously -25 cases out of 53 He treats the cases according to individual indications the mild ones expertantly the severe ones actively Up until 1908 his total mortality was 0 76 per cent in 1913 this figure rose to 13 6 per cent In 63 cases 42 children were born hyang and 22 dead five were dead before both one died immediately afterward from a severe malfor mation The result in 57 cases was 15 dead chil dren or 26 3 per cent of these 8 weighed less than 2000 gras of the hving children 13 per cent died He discusses the prophylaxis and treatment of

He discusses the prophylaxis and treatment of celampaix and says that all cases hould be given hospital treatment. He does not commend Stroggenoff a treatment which he says is irrational. He is favorably inclined toward blood letting but not decisively so.

By Experiment

Engelmann F Compromise Between the Rad ical and Conservative Treatment of Eclampals (Uber den Wert der Theupes der snuthenn Lante bet der Behandung der Ekkenpase) Had Alva Berli, 9 3 m 58

Ains Berl. 9 3 m 18
By Zentralbi f d ges Grank Geburtsh d Ger ugeb
The author reports the results of the treatment of
clampsa in the municipal gynecological disac of

Dortmund They have decodedly improved sucradical early delivery has been green in fiture old treatment he lost 3 out of 47 case 6 for cent in a series of 48 cases under the new treatment he has lost none. These results correspond to those of the Leupze clause. It is not adjustable houser to give up all attempts to influence delivery. A combination of expectant treatment with rand

A combination of expectant treatment with rapid delivery gives better results for the child. Of the last 47 viable children in cases of eclapspus, the author lost only 4 one of those from an injury during delivery. This gives a mortality of 9 3 per cent, in contrast with 21 to 41 per cent from the purify

expectant treatment

The author's treatment is a middle course between the extremely conservative and the critemely radical treatment. It is as follow. The patient is soluted and kept free from all enternal irritation all operative procedures are carried out under collopoform anarcous. An abundant quantity of blood is intendestelly withdrawn followed by blood is intendestelly withdrawn followed by influsion chieful enemats are ge ent regular intervals. Delivery is hastened by distation of the or the tuse of the metricarpiter artificial fedierry is performed as soon as it can be done without danger.

Recet

Husser A The Indications for Casarean Section, Found in a Section of Forty Four Casa from the Gynecological and Obsterical Service of the Brooklyn Hospital Log Idad M J 1915, 19 46 By Surg Gynet. A Unit

From a series of 44 cases the author summariaes under more beadings the indications and contraundirations for contrary section as follows

indications for extarean section as follows I In pelvic deformity obstructing labor he states that disproportion between the diameters of the head and those of the birth canal is the ommonest indication for casarean section and in the above series he has operated for this complica tion so times. He describes the degree of disproportion as absolute when the difference between the drameters of the head in a favorable position and the diameters of the pelvis is so great that engagement cannot take place relative when the opposing diameters are such that engagement may or may not take place according to the moldability of the head and the cha acter of the labor apparent when an abnormal position prevents the small diameters of the head from engaging with the small diameters of the pelvis. The pelvic diameters most frequently at fault are the true conjugate, the transverse and anterior posterior of the outlet He states in a ge eral way that with a true conjugate of 71/2 cm or less and a normal baby the inducation for creaters section is absolute and with a larger conjugate the indication may or may not arise according to the disproportion that exists the amount of molding that takes place and the physical condition of the mother and child

2 Under the group of mechanical obstruction by diseased conditions of the pelvic soft parts the author mentions tumors cicatricial contrac tions and inflammatory thickening of the pelvic soft parts and states that in the 44 cases he has operated five times for these conditions He believes that ovarian cysts complicate labor about once in ooo cases and advises removing the cyst at the beginning of labor or if this is impossible he recom mends a casarean section

3 In the cases of ventral or vaginal fixation dystocia, the author does not advise casarean sec tion except when a rapid termination of labor to necessary and suggests in the less urgent cases the releasing of the band of adhesion by laparotomy and allowing patient to go to term or the doing of an anterior vaginal hysterotomy

4 He reports two cases of rupture of the body of the uterus in the senes and two cases of con

traction ring dystocia

5 Cavarean section may be indicated in elderly priminary who are having prolonged and ineffective labors and in whom the conditions of the soft parts are uch that forced vaginal delivery would be injurious to the baby. There was one such case in the series

6 He reports two cases of eclampsia in which the general condition of the mother necessitated rapid deli ers and states that at the present time the operation for this condition is sometimes indicated and that it may be done in the interest of the child providing the mother's condition is favorable or when there is good reason to suppose that the baby can be sa ed by no other means and when a cond tion exists that would necessitate its application in the interest of the mother irrespective of the eclampsia

7 He reports four cases of placentia prævia and suggests that ca sarean section be used in severe forms of pincenta prævia, where the child is in good condition the mother not infected the period of utero gestation over eight months and the cond tion of the pelvic soft parts such that easy deli ery cannot be accomplished by the vaginal route

8 The auth r reports only one case of heart

disease in the ntire series

In conclus on the author says When indications for crearean se tion exist we must recognize them promptly and have g recornized them it is ur duty t earne-tly urge it claim and to so handle our patient that when the necessity arises the oper tion ma be done with the least not this risk d I that the result of casare n ectt does n t b wh ll in the hands of the operator but largel in the ha ds of the man who ha pre ceded him Wm D PRILLIP

Da is & B Gasarean Section a Study of a Con secuti e Series of Cases tm J\_06: By Surg Cyner & Obst 911

Da 1 report n addit nal 46 cases to th series of 47 previou I reported cases and tudies the result of th combined series I 101 consecutive cases per ted by him ce 1901. Of these cases

174 mothers, or 90 2 per cent including 5 convales cent cases recovered while 19 or 9 8 per cent died. Of the 19 deaths 15 occurred in the first 100 cases Twelve of the 19 deaths were due to sepsis 9 of which are ascribed to the attendance prior to the patient's entrance to the hospital In all 106 infants were delivered - twins in 3 instances 164 including 4 still in the hospital or 84 1 per cent survived the puerperium 31 or 169 per cent were stillborn or failed to live of the 31 11 were still The majority of the deaths subsequent to delivery were due to prematurity

In reviewing the results obtained in the various affections neces itating the sections the author states that 15 sections were performed for eclamosia all the patients were either having convulsions or were in coma 12 were primiparæ none were in labor scarcely any of them were at full term Eleven or 73 3 per cent of the mothers recovered 4 or 26 7 per cent of them died Five children were delivered of the 4 mothers who died 4 of them had In all 17 children were dehaered from the 15 mothers one set of twins and a nre mature fortus were stillborn three other babies died during the puerperium making a combined fortal mortality of 6 or 3 3 per cent Lleven babies or 64 7 per cent were d smissed in good con lition

Three of the cases had a rupture of the uterus in a subsequent labor in one case both mother and child died in the other two both survived Davis con siders that the dangers of a rupture of a section scar is a real dager and that the patient hould be care fully watched during pregnancy and that a section should again be performed at term or in the first part of labor N SPROAT HEAVEY

Da ! F C Report of Casarean Sections Done During Past Year J H A : Ga 013 1 260 By S rg Gynec & O'nt

The author report that in performing five vaginal carriern sections during the past year he lost one case from profound toxemia and other used in the anasthetic. He had four abd minal sections with out maternal mortality A premature child deh ered of an eclamptic mother was deh ered al ve but d d n t survive

In one case fibroid tumors in the lower uterine segment necessitated the operation in another a narrow pelvis which prevented the head from engaging after three days labor demanded the operation anoth r woman had a Pott s disease affects g the lumba with m rked kyphosis a d a very narrow inlet. The f urth woman was eclamptic an i had a conjugate of only three and one half inches

C II Dure

McPherson R. Treatm at of PI centa Pravia by Captagean Section Whin If Ever 1 It Ju th flable? Im J O' 1 N 1 to 3 l 114

By Surg Gyner, & O' t

Of 4 o cases if placenta pravia treated in the New York Ly g In Hosp tal s ce 1891 19 cases

ance 1905 were treated by Casarran section by ant different operation. We case had more than two fingers distanten and all had not much blood One mother ded or a mortally and the standard continued to the children were still born and three died here. The children were still born and three died here the hospital a fortal mortality of g or so per cent VicPherson believes that when the patient n a primipara whether the placentas is margnal or entirel or a primipara whether the placentas is margnal or entirel or a multipara, with the placenta central if the exerts an appeal or not easily distable that crassren section is the operation of chaces in competent hands and good surroundings, promoting that the child is viable and the mother offers the ordinary safe

Crossen, H S: The High Short Incision for Cossreun Section Intert M J 1913 xr 143 By Surg Gynce & Obst

The author reports a case in which the high incision was used. The advantages of this incision are as follows:

There is less extensive handling of the pento-

There is less extensive handling of the pentoneal surfaces hence less shock and less danger of infection

The incised uterus drops away from the

abdominal incluon thus preventing adhesions which have proven a serious matter in some cases operated on by the usual incision.

This incision cannot be used when there is a possibility of removing the uterns for infection.

Enward L Coursel.

Benthin, W Treatment of Pebrile Abortion
(Zur Rehandlung des feberhalten blort) Zute's

Garife w Gratt 1913 lx. 832

By Zentrall I of ges Gratt u Geburth of Crenzeeb

In view of the widely varying reports as to results from Winter's conservative treatment of retained owns and remainst of pherents, as well as febrile abortion especially when hamolytic streptococrar present he has had collected the soo cases of lebrale abortion treated according to these punciples in his climes more 1900 and Beathin reports them with detailed descriptions of the climical course and hacteriological findings

betternoughest minoric assuments on a lumined to the company of th

mortality The mornous was found to depend to marked degree on the kind of bacteria present In the presence of a harmolytic streptococci, the morbidity and mortality was higher than with a hamoistic stanks lococci colon hacily and samual bacilly but in proportion to the total average it was comparatively low Illa 48 cases of febrile abortion infected with hamolytic streptococci he managed senarately according to whether they were treated inside or outside the chine, and whether they were complicated or not The results were as follows Under active treatment of 16 uncome restart even recovered immediately 6 after two or three days fever a had py mina and a parametritis 5 died two each of peritoritis and acute senses and one of acute sentic thrombonhiebitis, of three complicated cases one died of pyemia one of periton its and one of this group was 62 2 per cent mortality 16 7 per tent or deducting the complicated cases 56 3 and 31 2 per cent Ol 11 uncomplicated cases treated burely expectantly three were al obtly sick of two complicated cases one was sheltly sick and one died Of seven uncomplicated cases treated ex nectantly and then actively one was severely sick of nyemia and one of parametritis

There were no complicated cases treated in this group to that the morbidaty for the expectant and expectant-active treatment was only 37 g per cent and the mortality none. Outside the clinic two uncomplicated and two consplicated cases were uncomplicated and two complicated cases with the complication of the complication case of spontaneous abortion treated outside the dime expectantly one was midtly and one severely sick

and two died The important question in practice as to whether any barm is done by the expectant treatment the author answers negata ely for some cases an others he leaves it an open question, considering his one case of pyremia and he also leaves undecided the question as to whether active treatment would ha e been better in this case. He emphasizes the fact that in two thirds of his cases, under expectant treatment the uterus was evacuated spontaneously three times on the first day five times on the second and once each on the third, fourth and tenth days Moreover that in the active treatment there was generally a marked change for the worse while in the expectant treatment with the exception of the one case of pyzemia there was rapid decrease in the symptoms which had often lasted for a long time such as fever chills and hamorrhage. There should always be strict rest in bed ergot medication, regu lation of diet and avoidance of all injuries, among which examination is counted

The author thus has a total morbidity of 6 per cent and mortality of 36 7 for actively treated cases, as sganust 48 per cent and 16 per cent for the expect ant if he includes the complicated cases and those treated outside the clime in the excludes the complicated outside the clime in an exclude the complicated cases he gets 56 and 31 2 per cent for the

active cases and 27.8 per cent and none for the expectant ones

It is natural that Benthin should regard the results of this last series of cases as a confirmation of the correctness of Winter's teachings. He concludes with a critical review of the work appearing on the same subject from other clinics but says that their statistics as to morbidity and mortality can not often be compared with his either because the expectant treatment was not strictly carried out or because the mortality of the cases with harmolytic streptococci which is the vital point of Winter a teaching was not separately reported VASSMER

## LABOR AND ITS COMPLICATIONS

Prognostic Value of Demon Goldstrom, M astrating Streptococci in the Vaginal Secretion of Women in Labor (Über die prognostische Bo-deutung des Nachweises von Streptokokken im Vag-maliecket Kreissender) Zisch f Geb ich w Gynife

1913 kvu 737 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

The author examined 902 cases which were ad mitted to the clinic in labor without any clinical sums of infection. In some of the cases there had been vaginal examinations and attempts at deli erv before they were admitted Aside from the opera tive cases the exami ations made in the clinic were all rectal Complicating general diseases syphilis and gonorrhora were excluded The secretion was taken antepartum from the l wer third of the vagina, with Trangott's applicator

Superficial smears were made on alkaline agar plates cultures in alkaline bouillon and anaerobic cultures in the upper layers of grape sugar-agar superficial smears were also made on blood plates Quantitative conditions were not taken into consideration since in x cases, in spite of the fact that there were pure cultures of streptococci on the first alkah plates there was no fever during the puer persum. The morbidity was sudged only by the temperat re cu ve axillary measurement and maximum of 38 Under these conditions there was no appreciable difference in the course of the puer perium in women without streptococci and those with hamolytic or non-hamolytic streptococci The prognosis of the puerpenum is not dependent on the presence or absence f streptococci in the secretion of the lower third of the agina ante partum The danger of a strain of streptococci to ta host cannot be determ ed either from morpholog ical or biological data

Rouvier I Simplified Directions for Podalic Version by Intern i Manipulati n in Head Presentations (Formule simplifies pour la version podaloge, par maneuvre mittere dans les presents tons de l'ovoide ophalogue). Bull occ d'ôl i di grate d'Per 9 3,4,46 B.Z. tribli I de gr. Graik u Geburtsh d Grensgeb Rouvier I

In internal version in the head presentation there are according to Rouvier four points to be consid

ered in carrying out the operation the position of the child's head the location of the physician with regard to the patient the insertion of the right hand and the seizing of the right foot. In version in the transverse position Rouvier proceeds as follows If the child's breech is to the right the physician stands at the right of the patient, inserts the right hand and seizes the child's right foot if the breech is on the left, the procedure is the same except that left is substituted everywhere for right If it is a case of head presentation the procedure is as follows With the occuput to the right the operator stands to the right of the patient inserts the right hand and seizes the child's left foot with the occuput to the left he stands to the left of the patient inserts the left hand and seizes the child's nght foot FRANKE\STEIN

Stephan S: Death from Intraperitoneal Hem-orthage During Delivery from a Varicose Nodule at the Angl of the Uterus (Intraperi-tonealer Verbl tungstod sub-purtu-us enem V rix knoten an der Uteruskante) Gymbi Rundseks 1913 vn 657 By Zentrajbi i d ges Gynak u Geburtsh d Grenzgeb

The author reports a case of the complication described in the title which was brought to the clinic twel e hours after the patient had first fainted I probable diagnosis of premature separation of the placenta was considered so the uterus was emptied by aginal casarean section and laparotomy per formed afterward Unfortunately the anamia was so extreme that the patient died half an hour after the operation

The author recommends in similar cases where the diagnosis is somewhat in doubt that an explora tory laparotomy be perf rmed as soon as possible Engres

## PUERPERIUM AND ITS COMPLICATIONS.

Polak J O: The Management of the Interior of the Uterus in Post Abortal and Post Partum 

In a clear and concise way the author shows why every case of post abortal and post partum infec tion should be studied caref lly and treated accord ing to the type of inf tion and the duration of pregnancy avoiding the use of the curette or any intra uterine examinations during the acute stage of the infect on except in abortion cases of less than seven weeks when the uterus is retroflexed

A study of nearly 2 000 cases of puerperal infec tion has demonstrated that the endometrum should never be curetted in streptococci infection and that curettement of the placental site is a potent cause of thrombo phlebstis of the pelvic veins author has also observed that perstoneal and para metrical complications are rare in cases in which the interior of the uterus has not been disturbed by digital or instrumental exploration

Nature protects the organ against the invading

organisms by the formation of a defailt layer of feucocyte and small round tissue cells which are deposited between the indexed area and the understand to the state of the state of the tissue of the arctive man is to the state of the protective between the protection of the state of the other and spreads the individual of the state of the barrier and spreads the individual of the state of a more sat direct ty means of some and the advises as a more sat direct ty means of some and the state of presents of principles and expect in full doses also the use of level new over the use of the form of the state of the

In a report of sog cases of purporal efection, the author size as that a harmoly the reproductive was recovered thirty, four i rice, a strept voccus of the mon harmoly is type ten time, pure treptococcus, and the stape because the times is combined growths of streptococcus, and tapel loccus ten times in combit stone with color kindled for a suprophytic bacilit. Five and with streptococcus and colon brieflines ten times. Of this series there were three fatal cases ore fulling to how any organize in the basic policy of the streptococcus. I rive was found and in the lift of the streptococcus is rive was found and in the lift of the streptococcus is rive as found and the streptococcus is rive as found and the streptococcus is rive to the streptococcus in the streptococcus is rive to the streptococcus in the streptococcus is river as found and the streptococcus in the streptococcus is river as found and the streptococcus in the streptococcus is river as found and the streptococcus in the streptococcus is river as the streptococcus in the streptococcus in the streptococcus in the streptococcus in the streptococcus is river as found and the streptococcus in the streptococcu

Ws. D Patters

likewitsch W J; Treatment of Paerperal
Septis by Intravenous Injection of Distilled
Water (I ber di Behandland der Psepralseper

duch nire ende inchinen on tous destasta)

Zentrall f Greek, 1917 zeril 1390

Re Zentrall I d etc. ( 1918 u Geburst a d Connech

This treatment developed from the method of Hume of Relumore who injected intra rapudy con cress of a c per ce 2 solution of a last nitrate in distilled water and in the severest cases of servis ant wonderful results. Ilkewisch tried the method in 119 cases of puerperal fever weakened the solution a i finally used di tilled water alone 8 ccm to a hilogram of body weight. He always observed first a chill and high temperature accompanie i br an i en sein theer throcy termint foll wing which there was an improvement in even the worst cases. He treated 206 cases by the method and am ng 62 pa tients with the severest I rmol septi p amia he had 42 recoveries If the harmoglobin content a redi ced to so per cert an I the number of erythrocytes to less than 1700 000 and if the number does not increase after the injection the 1 regrous is hope Sifren.

### MISCELLANEOUS

Donaldson VI: Some Observations of Blood Pressures in Cases of Jornal and Abnormal Pregnancies and Labors J Odg. of trace Bri-Frey 1913 rtl 213 By Satz Gypec & Out

Durag pregrancy there is no increase of blood pressure n r i there in fall increduately following delivery. A finite stat no 1 as to the value of it is observed a with refer or to collapse in cases of preparancy completed by one as fewon is made but the author tends it said it from the perspection circulation has very hit to no with

the cellarce but that overs for late at a derest beart is an execut to account frit In cave of afferm unit of preentacy the root s mt eferis the bach vetoli pres u e in the p vi i t lebrery it present the difficult to say be to it is moschie t distroce the prove of it for read locan by the faire fithe Green relations las A mone blos I persone in the clares eto containly an indication for team 1 at a contain In albumi una there is further e ferre the the smale resured some intert a ft tower of the toxxmit. In peraction town a st Dre ute was rot ta ted a fact sucres e t town in these cases differs from that of the al bum nune cases In glacosana compi a. e tremy ev the blad presente showed cort age ..... C no Craves

Björkenheim F Ar Goigi s "Intern I bet work in the Placental I pitheli m (fost) to parato rethol re I ter in den Flacent my between Arch & Goods to a to and

hyZentrabli d grat yeak n teb n h a d fer ph In 1808 Golp d convent in net it in the proplasm of persecuti which he called the appear retailed in 18 mon recognition and shrectized peculiarity of all cells. By the horse work is concerned with dem to train then a two systems which had not inhere to be not a series.

He used it material three h man phoenes after dels ery and a human plac ta from the fourth month of pregnancy. The spector is for fresh placents were prepared by fodge at the send method and by Capil suranum natrate methol. The data is are meen in the original art is.

In the syncotium where there are to cell bos. darren there wa an angular lise an a little a-sk with a el conter and a deci led ret las atracture entrespond on exactly to the arr nection) act leucocytes and c rective tissue cells. In the Largerhans cells the retn rk s larger a d race clath defined and the clareres in the efter t reth burn the auth ! larget In the amniot observed an arra gement similar to that in th cutic a lis of the th road elan ! the setwork & here arranged in a tircle around the ruc euc the eages of the n g were et n d s well "a projects a Bjukeah m believes with talk that as hypothesi to explain the net it abou be accepted until sufficient mit mal h lected

Will D. Oight of Amalotic Fluid Cher do Herborit des ben was men Hall ha hi oth 1 st. Br Zee Fill des (1 st. Gabert & Grents)

By Zen "tild graft all factors in determine for some of the to give require the grade of the hour or throught or most active reconsisting of the most are the active for land the factors that the active with the about a land of the active that a post the active that a post to th ing to Von Polano s experiments the ammont find a product of exerction of the fortus. The sudden one to the conclusion that the orum secrets the ammont find making use however of material takes from the material organism so that its quantity and quality are to a certum extent dependent on the character of the nuture fluids of the mother is body. The chief tissue concerned in its production is the epithelium of the ammon The Andray a slio have a share in it but to just what extent is uncertain. The direct cause of by drammos therefore must be sought in the screetory organs of the fictus on which diseases of the mother act only indirectly

If the ammotic fluid is a purely fortal product miliformations such as club foot and congenital dis location of the hip cannot be explained by a lack of find but the oligohydrammos itself must be due to an abnormality in the ovum These experiments in regard to the origin of the ammotic fluid offer further proof of the activity and vital independence of the ovum

Waldstein E and Ekler R Proof of the Absorption of Spermatozoa in the Fernale Organism

Am J Urol 19 3 iz 5 9

By Surg Gynec & Chet

The authors have made a biological study of the fate of the spermatozon in the female organism after copulation basing their work on the Abderhalden test for pregnancy

Rabbias which were used for the experiments were allowed to have cotts and then blood was removed from the females in such a manner as to bowate hemolysis which interferes with the reaction. One and a half cubic contimeters of the blood to be allowed to the contimeters of the blood testing a such as the continent of the blood testing a such as the continent of the such as the such a

Control tests showed that there was normally no testus-spitting ferme t in the blood of the virging finale and finale rabbits. Having established this point the authors mad 15 tests on the blood of abbits soon —mostly within 24 hours —after cottes. The results were all positive and what more many of these results were bisuned in the same animals which had responded negatively to the first control series of e perime its In rider to prove the predictly of this reaction for testicle protein the without mad control test with the machine one test with had ey. These controls were all negative.

In response to the possible objection that it is t the absorbed semen but the impregnated ovum that causes the elaboration of this pecific ferment the authors point out that in the first place the interval after cottus is too bird for the orum to esert any biological influence upon the mother as it is not yet brought into any actual biological contact with her tissues and that in the second place they have observed numerous positive rear tions in rabbits which did not subsequently become pregnant. Meretheless, a special study as made that of ten cases investigated nine were positive that of ten cases investigated nine were positive The reactions in these cases however were invariably weaker than those obtained immediately post cophabitationed.

The authors are not yet clear as to the exact time relations between the contin seatton and the pregnancy reaction. That is they have agreed that the former begans soon after intercourse and ends probably within two weeks in non pregnant and viduals and that the latter laist more than four weeks is throughout pregnancy and even into the perperumen but they do not know definitely whether the cottus reaction goes over directly into the pregnancy react on when conception has taken place or whether there is a reaction free interval in these cases.

The authors do not believe that the reaction of pregnancy is produced by the same cause as he reaction of cotus for it is unreasonable to assume the constant absorption of seems throughout the entire four weeks. They would rather postulate the ensistence of a different ferment produced by the mother in response to the presence in her body of placenta the basis of the Moderhalden reaction and fertu as shown by Polana which has in common with the anti terms ferment the property of splitting test cle protein. That these two ferments should ha e this common faculty is not so remark able wh is we recall that placenta and fertus arise in part directly from spermatoson

Transferring the results of their animal experiments to the human sphere the authors point out that in demonstrating the existence of a new sub-stance in the body of a woman after intercourse they have furnished an additional basis for the explanation of those manifest phenomena, which were formerly wont to be branded as merely psychic in nature. The med co legal possibilities of this test as after rape etc are of course very great. A C Sycors's

Williams, W. W. and Ingraham C. B.: Abder halden a Pregnancy Test. Col. Ued. 10, 3, 367 B.; Surg. Gynec & Obst. This paper gives a detailed description of Abder

halden a pregn ney test including the testing of the dialyzers the preparation of the placenta, and the method of btaining the blood scrum

The dislyzers are softened by soaking in water then after rece ing 2 5 ccm of diluted egg white are placed in dislyzing essels and the dislyzate tested for albumin with the burret reaction. If imperimeable to albumin they are then tested for permeability to poptone using a 5 cm of a 1 per cent sike persone in the time. That cm of the dualyzate is boiled with 0 2 ccm of a 1 per cent aqueous inhalydran solution a boiling roll being placed in the tube and all the tubes boiled for exactly one minute. All the shells which are equally permeable to persone as shown by a volet color site one bull foom are used in the texts the others

The placenta is builed and mised repeatedly into with water and acetic acid later without the acid the object being to get ind of any extractable alshydrin reacting substance as shown by testing 5 ccm of the filtrate with it ccm of a z per cent unshydrin solution. When there is no reaction the placental material is ready for u e and may be kept

indefinitely if treated carefully
lifteen to twenty can of blood is withdrawn
from the venn of the patient allowed to clos spon
annously and the serum only used in the test
The serum should be free from substances which
react with numbydrin for this treaton it is prefer
able to take the blood during the fasting period
before breakfast it should be free from Numbroofobin

and hould contain no formed element

In the test three inalyzing helds are used to one saided o gg of piternta and 3 ecm of the serum to be tested to the second 3 ecm of the serum to be tested to the second 3 ecm of the serum and to the third o gg of placents and c 3 ecm of distilled nater. The shells are then placed in dishaping vessels and the shell and sessel contents covered with a layer of tobiol to present evaporation and contamination. They are menutated at 32 for 65 hours and the dishyzate then tested with anhydim solution no tube except ho 1 show any color although, occasionally the second tube may show a faint reaction.

The authors made 27 tests on 21 cases six lefinitely pregnant seven indefinite cases and eight known definitely to be non pregnant after using all necessary precautions and re testing the cases where hamolysis had occurred the test was

lound arong in only one case

The reaction should be posture in pregnan y in the fifth and such seek and until ten to fourteen days port partium. Where there is protein extalolism breaking down of the tasser shorption of seudotes and transactates: (arcinoma sarcoma purishent processes and hemorrhage the serum may react with annihydm and confluse the test.

Sattler R. The Prophylatis of Ocular Birth Infection and Venereal Diseases Ls of Cin to 5 64 By Surg Gynec & Obst

The author calls attention to the close affination of ophthalman accuratorum which is one of the most fatal causes of infantile blundness with gonorrhors and believes that the reduction of the true specific cases cannot be achieved through occula prophylaza alone, but only through more widely distributed and easily available information regarding the

treacherous dangers of gonorrhora. He suggests (f) That among the legitimate married classe, if proof is at hand that the father was the carrier of the mother's and infant s infection he should be brought before the local health officer in order to impress forcibly upon his mind the enormity of h misdeameanor (2) That the Board of Health should compel the prompt registration of every ocular berth inflammation or contamination and make Crede a prophylactic management commi sory for every case to public lying in hountals and outdoor obstetrical service. He considers Crede's prophylaxis the best and most successful means of stamming out an imminent order contemption and as proof calls attention to the great reduction in the total number of ocular birth inflammabone since this method has been adopted. Among the prophylactic agents he considers the oliver salt the salest and far shove its substitutes around etc. This agent, he recommends in every particular case as he has met with but few harmful con scovences in its use

Ife considers the possibility of pyogenec organizate being forced into the eyes through a patinous usual duct from the usual cavity which as a larger and easier receptacle for the longer lodgment of infectious pus during protracted labor.

ALEXANDER W. SCHOOL

Tucker B R Birth Trauma in Its Causative Relation to Fpliepsy and Insanity buy If

By Surg Gynec & Obst

The author tatest that in the pathology of epicepy there points must be born in must Parts to have epicepy there must be a brain structurally defect e and in burth trauma cases there is usually found lefinite evidence of local compression herm orrhage or cy. I formation second repeated con vulsions may cause dilated blood vessels increase in the neuropial lements stronby of coavolutions punctute hermorrhages and local ordena. The third element in the pathology secretifying to Tunding in the blood research of the control of the local vessels when are probably as managiamation of bloodplates r hyshine mat rial formation, or finely granulated deboths or filters threads.

It must be remembered that many cases of burth traums of more or less averaby are not followed by epilepsy or insanity and that on the other hand, both of these conditions may appear from other causes in individuals who present evidence of other traums. The author gives a burd instory of it cases in which burth traums was the probable cause of the epilepsy.

Winn J F Intracranial Traumata at Birth
Their Interest to th Obstetrician F & H

Sem If min 9 3 avan 445
By Surg Gymer & Obst

The author estimates that in the past ten years there have been at least 64 240 deaths from birth

This is based on the mortality statistics traums for the Registration Area" of the United States for the year 1910 He states that Schultze in a study of this subject in 1877 came to the conclu sion that 5 per cent of children are stillborn and that I 5 per cent die very soon after birth as a result of injuries at birth

In conclusion the author believes the following deductions are warranted and in view of the very high mortality rate and the serious fortal morbidity, he would enter an earnest plea for their universal

adoption

The absolute necessity for the routine practice of pelvimetry and foctometry several weeks before term when possible and again at the time of labor on every primipara and likewise every multipara with a history of a dystocia or a stillborn child.

2 An accurate diagnosis if possible of the

resentation and position of the child prior to labor and certainly when labor has begun coupled with a thorough knowledge of the mechanism of

labor in contracted pelves

The cultivation of that watchful expectancy necessary for recognizing the indications for inter vention when the child is in jeopardy not forgetting the welfare of the mother

1 more intimate acquaintance with the indications for and the correct application of the forceps and the dictum that forceps should never

be used to save the physician a time

and prolonged pressure of the forceps results in That the failure to remember that the sudden dangerous and murderous compression of the child a brain and that the un killed an I ind scriminate use of the forceps 1 oftener the cause of intra cranial bemorrhage than the rather infrequent high degree of pelvic contraction

and careful tudy of the Thit the rout fortal heart soun | will eventuate in the r duction of the m reality and m rb by dependent on cerebral compress on nd hamorrhage

7 That the more general resort to episotomy when the h is unduly compressed by a rest tant penneum will like we educe the numbe asphyziated in 1 ripple I infants C II De t

Frazier C II Surgical Aspect of Bi th Traumata I g If S m If th

lis > rg Gymes & Obst

th r bel th most ignin at fe ture hg of th new t m is th 1 h.e fact thit thin m h ilmost a intibly ub t I t ilt ansallum t orth whith near the most per att fural The profit but the fithat of dura m hm lml in to to the raf nt skull Autopea ree I ni t th t th ŀξ mor pt r the i n t lr the thin the occinital to prest r fro t lkbe an l th m I fle rath than the ant n from tith base

The location of the hemotrh gemost im port t lhe ript m of pretent rial hæmorrhage are Extreme restlessness and spasm rigidity of the extremitles epileptic like twitchings of the face arms and legs lowered pulse and respiration rapid rises in temperature increased reflexes bulging of the fontanelles disturbances of the pupil etc. With the peribulbar type the baby is usually in a somnolent condition with cyanosis of the face head and hands pulsating fontanelles irregular breathing and sometimes convulsions. In all suspicious cases lumbar puncture and puncture of the subdural spaces on both sides should be resorted C H DAVIS

Fuchs, H: Narcosis and Anasthesia in Childbirth L sersal M Rec 1913 14 481

By Surg Gynec & Obst

Circumstances combining to establish the use of chloroform in normal labor to establish narcosis are (1) Use of minimal quantities of the anaesthetic (2) remarkably quick awakening (3) slight or no after-effects

Tolerance of chloroform during labor is the result of (1) increased gas exchange in the lungs (2) increased driving power of the heart and (3) rapid escape of poison through bleeding

In the opinion of the writer there is an important sphere of usefulness for chloroform in normal delivery namely the so called narcosis & la reine chloroform mebration This is brought about by careful administration to maintain the stage of hypalgesia or analgesia which normally precedes the stage of excitement. The success of the properly conducted chloroform inchriation is of such a nature that n t only are the pains not felt but usually th re is a loss of memory of the severe pains

Ether as a help in labor is far superior to chloro form It d mim hes the pains far less and interferes

with the abdominal eff rts hardly at all

Pantopon gi en hypodermically effects psychic alm and lessens the pains felt without any no ticeable deleterious influence on the frequency in to ad duration of the pan Its effects on the hild h we er may result a deep a mao

lence f the w born nalges action of scopolamine morphia th t th pain are perceived at the

m ment but I ve no mem ry picture I h o lu les We are till far from the goal

of pe f t annesthesis which hall satisfy the rule at D L B apry

Bosm in de Lat Angelino I and Mirgot A J : Fate of 740 Child en with a Bi th Weight of Les Th n 3 000 ( rams (t tere h een ther d ger 1 3000 ( ramm) 71 4 1 54 6 6

By Zentra bl f i gen ( vnak Geburt h d f renggeb I the auth re treatment of the above cases wh n th t mperature sank the chiliren were nut warm bath Th in ubat r was used only when the ge rai con i too was b i not on account ght alon The no n hment ct | ted

of mothers or names smilk when this could not he obtained modified buttermil was substituted Almost all the children died who were born in the clinic kept in the incubator and weighed less than some lived who showed birth weights as low as 1200 gms. Of the boys born in the chine 27 8 per cent hand of the girls as a per cent Of those born outside the clinic 40 9 per cent of the boys and 33 3 per cent of the girls had Of all the 175 children who were put in the incubator 105 died in the clinic 25 outside 33 (254 per cent) are still alive and 12 were lost sight of Of the 565 children who were not kept in the incubator as died in the clinic yar outside yar are still living (ross) and at are unknown

#### Donnell R E Two-Headed Fortus J W St H By Surv. Gymec & Ohat. As 2072 E 108

The author reports a case of an unmarried surl of sixteen giving birth to a two-headed male fortus (dicebhalus dibrackius diauchenos) weighing about 834 pounds Labor was practically normal L O A except that after deli ery of the first head it re quired considerable traction to deliver the second Donnell then gives a complete description of the fretus. The heads by measurement showed that they were actually of the same size and perfectly normal the faces were identical and the body apparently normal At autopsy two entirely independent hearts were found enclosed in one percardium there was one set of lungs two livers and two gall bladders The small and large micetines were about twice as long as usual. The al agram showed two separate and complete spines while the remaining bony structure was apparently normal Arry year Il Schurr

ner L. Lithopedion in the Mesentery for Twenty Years (Lihopadon in Mesentenium durch 20 Jahrs gringen). If a lick of Gebarick s Gyack Blener L 1013 XXXVIII, 4 8

By Zentralbi f d ges Gynak u. Geburtsh d Grenzreb In an autopsy on a 56-year old woman a litho pedion was discovered which was connected ply with the great omentum. It had grown until the fifth month and must have been lying in the abdom inal cavity for at least 20 years Microscopically

saide from bone, only striped muscle and elastic fibers could be demonstrated According to Auchen measter's classification this was a true lithopedion Microscopical examination of the genitalia showed beyond a doubt that it was a reptured pregnancy of LADOP the ampulla of the left tube

Use of Pitultrin in Obst tries (Pitm tripanwendung in der Gebintshilf ) Arch f Gynek 1913 Et 455 By Zentralbi i d gea Gynak u Geburtah d Greenageb From his study of the material in the Wertheim

Clime the author comes to the following conclusions

Petrotron is indicated as a means of stumplating page at the end of the first stage and throughout the second stage. The conditions for the use of primiting are about the same as those for the use of forces. Pituitrin is also indicated for breech presentations and placenta prievia after version or metreurous earher in labor it may cause complications combination of pituiting and erectin is useful in communation of pituitina and ergotin is useful in post-partium hemorrhage. For this purpose it abould be given intramuscularly. It is an excellent prophylactic preventive of hemorrhage in cerustan section. Schmidt recommends that for this purpose it he given by direct injection into the miscolature of the uterus immediately after the extraction of the child

Hevnemann T The Measurement of the Pelvis with Rontoen Rava and the r Practical Use in Obstetrics (Die Beckenuntersuchung mittelst Routgenstrahlen und thre praktische Bedeutung für di G burtshife) Prakt Erg bu d Geburisk u

Gynak 9 3, V 137

By Zentralbi I d nes Ganate Geburrah a d Grenzeb

Stereoscopic pictures are distinguished from those that are limited to the most interesting plane of the pelvic nlet. The author discusses the latter when taken from short and long distances. When they are taken at close range there is an enlargement and distortion of the drawing for it is bardly possible to Leep the tube in an exact central location and the plane of the pelvic injet exactly parallel to the plate The enlargement is less if the patient is placed in the abdominal position with the plate placed on the body and the tube seh nd. Both these disadvan tages are decreased when the meture is taken from \$ distance The best distance from the focus to the late is 10 to 260 cm In practice 0 7 cm should be subtracted from the size of the picture to get the real measure of the diameter When taken at short distance a reduction is necessary in order to get the

correct measurement

Stereoscopic pictures are true orthomorphic images The best distance from the focus to the plate is 60 cm in non pregnant and 200 cm in pregnant cases Thi hould be decreased 65 cm between the first and second picture These pictures give a good general view of the pel is but cannot be substituted for obstetrical purposes for a picture f the pelvic inlet taken at long distance. Their greatest alue is in exact measurements of the pelvis By the Vackenzie Davidson method the desired diameter can be obtained exactly but the method is complex and difficult so that t is ques tionable whether it can be used a general practice The goal to be attained is to get the pelvic mes urements direct by the use of the st reoscope Pulinch succeeded in principle but the practical chuical usefulness of his apparatus has not been sufficiently demonstrated No way has an yet been discovered to utilize the rontgen rays for determining the size of the child head

# GENITO-URINARY SURGERY

### KIDNEY AND URETER

Geraghty J T and Plaggemey r II W The Practical Importance of Infantile kidney in Renal Diagnosis J Am W 1s 0 3 1 1 22 4 By 5 rg Gynec & Obst

This interesting an i important contribution is based on a study of eight cases three obtained at autops) among 3 940 from the pathological depart ment of the Johns Hopkins Ho-pital one case in a cat from the experimental animal laborators two cases in which the condition was discovered at

operation and two clinical cases

The condition has attracted very little attention and is usually omitted from classifications of & diey anomalies as it cannot be recognized by the ordinary methods of examination Papin in his very complete classificat on of Lidney malformations mentions the type of rgan and in 1911 Mc Arthur reported a case which died from renal insufficiency following neph ect my for tuberculoss and at auton y an infantile kidney was found on the In the case the ureters had been opposite id previou is ath terized and a perfectl clear apparently normal on bta ned from the insuft cient kidney. The kidney is therefore a great menace to the urges in case of decase if the opposit hypertriph Lilney

I hree of th ses reported are f particular interest and in which in apploratory persticin re aled the codition and two in which the anomaly we rec go zed classally and operation rei wil

Im n aged o with a 1 gnosis of tuberculosis of the ight kide and infantile left ki liney was admitted to the heart left had a history of uni es smit m til y are fur tin Tubercle ba II tated a th unn but the point to seem I l and piddyme wr norm ! I) If if w a niracted that ure te lathter t wa unu ful T1 total ren I f mated 1 ph nobulo neph t tiun of 16 per cent fr n sb 1 h wed an Th it it ridu t n n th total funct n bilt f | later | les on and suggested if 1 Trite W aired Th w tirst pased and disco red t be firth the of normal kidney while 1 1 rs the expect the rg n seemed normal -Thew pe ' I them a the urface wa n b h t s orm ! nith wreter w 1 th larat n uggest of tulen In 1 u f th reduced t t I rend t n nith prese fan infart le ki irey on th ift ther introball that there is was th 19 mit ! If the hypertroph ed

meht kidnes was tuberculou it was also evident that nephrectoms could not be performed because of the deficient kidney on the left consequently

the right Lidney was not explored

The nationt was seen again three months later He g neral health had been fairly well maintained The urine was quite cloudy from pus and the total renal functs n as estimated by phenoisulphoneph thalein showed an excretion of 25 per cent which decrease of 11 per cent since the previous examination It seems probable that the tuber culous process of the right kidrey is causing a decrease of the total function because of the inability of the left Lidney to undergo compensators hyper

troppy sother man aged 2 with tuberculo 1 of the right kidney and an infantile left kidney was ad duration Tubercle bacilli were found in the urine Vier cathetenzation of the ureters and estimate n of function the urine being collected for one half hour gave the following results Right ki iney— 80 ccm cloudy micro-copically pus and miny tubercle bacilli phenol ulphonephth I in approx imate time fie m nutes excreti a go per cent ( r ore balf hour Left Li ines - s com clear more scopically negative phenolulph nephthal n anproximate time to minute acretion Spe cint

In order to a norm the preceding fining cathe epeated later with almo t i lentical terrestion a result The total function a estima el by ph nol ulphonephthalem h wed an scrett n of s per ent f r one h ur f llowing intramuscular I xam ation to r niger ray w need tiefrin fut hwela kilney hiw in the I ft it not quite half as large a the hal won th right

mal ha act a 1 color of the urine the mall am u t exected on the left all the rel to els high are o centrati n and th mill Li ines ha low m k th h g sol infinil kilees pt at e sorthern e ile tight k l alth ugh deir tely tubercul u til ret med a funct qu I to or n gretrthatlat la perfecti n'er laid

wit hi feate thi jr ns t the orest of Lease th Ling it a hypertrip anoth r ave wa of dutte uret r

1 privas anth hamatuna on right le ant i i 1 K Cgy n th left ade I II wing a severe ! | w ver the regin I the rg Lilney the pat half ned blit hune without educate the time wie col r and n enslosing c am th tream of blood re seen! timm then !

unter Cathetersation of the unters was per formed and functional estimation made by nests of phenolsulphonephthalein, the unne being collectife for one-half hour. The results of the examination are as follows. Right kidney—function free and rapid bloody microsopically negative except for red blood-cells ures 12 per cell blood-bells ures 12 per cell blood-cells ures 12 per cell blood-sulphonephthalein approximate time five minutes exerction 4 per cent for one-half hour

The preceding examinations were repeated three times with practically identical findings on each occasion. Pyelography using 35 per cent collarged alsowed on the right side a double nirther careful ing from the crest of the shum and ending in two apparently normal pelves rather widely expansive. The injection of 7 cm into the left badery pelvar produced definite para and pyelography showed an irregular small indefinite pelvas. Estimation of the lateral fination of the contraction of 50 per cent for one hour following extraction of 50 per cent for one hour following maximus collars in action on the normal three being an exerction of 50 per cent for one hour following maximus unitertion of the nonlinholomethylatical.

In this case, on the right side which is the source

of the harmaturia, there are two separate ladores, or more probably a large half ladage, which has seven-eighths the total function. On the left side there is a ladary which secretes unne small in amount microsopically and chemically normal, and with a high urea concurration which is equal to that of the right ladacy. The function however is so low that it is extremely improbable that it could maintain life. The practical importance of recognizing the deficient ladary in the case needs no comment.

The authors male a ngunfacant observation in

Indeed the state of the state o

The authors summatize the diagnostic points in recognizing the presence of an infantile Lidney as follows

1. When disease is present in the larger hyper

trophied kidney the total function, as estimated by phenolaulphonephthalein is decreased and the function of the diseased kidney is usually greater than the function of the supposed healthy kidney 2. The function of the infantic kidney shows

marked decrease although the urea percentage and general character of the urne is normal while the amount of urne secreted is relatively small 3 Pyelography is of doubtful value since the

3 Pyelography is of doubtful value since the aire of the hidney pelvis is usually not a reliable index of the size of the kidney

to secure routgen-ray shadows, showing the pres

ence of a diminutive kidney. In Case 7 consider able belo was obtained from the fontgen ray which showed a very small kindney shadow less than hift that of the opposite sade. This taken in conjunction with the functional findings and the char seler of the urine was of considerable diagnosite sid.

Thomas G J s Report of a Case of Petric Eld ney; Diagnoels Before Operation As Son Phila 1913 J m 809 By Surg Gyner, & Obel.

The author reports the case of woman 32 years old who for one year had suffered from attacks of pain in the lower abdomen accompaned by ten derness in the left side of the poiss and frement

mictorition

She had never menatruated and, on examination, no sign was found of uterus tubes, or ovaries The vaging was one inch in length and there was a rounded mass, the size of an orange and tender on pressure, atuated high in the left inguinal four Because of the congenital anomaly of the pelvic organs urcteral catheterization injection of col loidal silver and tadiography were performed The catheter could be passed into the left ureter for s cm only The shadow of the kidney privis apared in the left side of the bony pelvis the m hidney was normal in size and position. The left kidney was removed by Mayo It lay with the pelvis pointing upward and inward in the hollow of the sacrum to the left of the median line it was bydronephrotic and infected. The length of the ureter was 4 inches Two or three renal artenes arose from the left common that about one-half each below the bifurcation of the sorts

The case illustrates the value of radiography is the disgnosis f ectopic kidnes Horace Burvey

Allen, L. W. A Case of Bilateral Hamsturia Cured by Injection of Whole Blood. Am J Surg. 9.3 moru 465. By Sung. Gynec. & Obst.

The author reports a ca e of hydronephrous with bilateral hematums in which the bleeding was checked immediately by the injection of whole blood

blood. The patient a I maie 7 years of age had conplianced of parn in the left side and hundar region for one year. I Lematura, had been pretent one month but ther had been no challs or fever assues or cough. The phy ical examination was negative the urnes co insued many blood-cells but was otherwise command. Radinggrain stade between the otherwise command. Radinggrain stade between the distribution of the command of the command of the hydronephrones. Carbeterused utness showed dood cells us both but no pus or bacterna hemoglobus ap per cent conquisition time for manutes.

Twenty com of blood taken from the patient's aster were tope ted immediately after withdrawal into the cellular tissue beneath the breast four days after ureter athetenzation. The mine became

clear in 20 hours and remained clear a week later the coagulation time was 2 5 minutes hæmoglobin 45 per cent.

After the patient spent two months in the country hamoglobin had risen to 80 per cent thus transforming the case from a poor to a good operative risk, and although she still had the pain in her left side the patient refused operation

In commenting on the case the author raises the question as to whether harmaturia in hydronephrosis is due to a concomitant condition of the blood to which congestion and erdema are added or whether

it is a local condition entirely

He suggests the possibility that the injection of whole blood modifies the coagulability of the blood sufficiently to prevent leakage also that the bleed ing in some cases of bydronephrosis is due to a change in the blood constituent and that in such cases the harmaturia will yield to injections of whole blood homogenous serium and the life.

In idiopathic harmatuna there would seem to be even greater reason for trying und in jections below resorting to nephrectomy and in all cases where there is a very low harmoglobin per cent preparatory to a later operation. Should it be found as efficient as human blood serum the simplicity of its use would recommend its more frequent employment.

ПС н ытв

Halle N A Gase of Renal Cancroid (S ca de cancroid rénal) Cong de l'as f anc d'uvoi Par 19 3 By Journal de Chirurgi

A neoplastic kidney was removed by Dujarier in a woman of 30 without any previous urnary history.

The operation was incomplete because of the invasion of the renal vein and the lumbar gland. The patient recovered from the operation, but died three months later from generalized metastases kidney was the 12c of the head of a fortus the pelvis was diated and transformed 1 to a closed pouch filled with a turb of bloody liquid containing a mass of soft white caseous fragments. The pouch was empty in the lower part and filled above with a large infiltrating ulcerous Iriable neoplasm. The part of the r al tissue that wa conserved in the upper extrem ty and the walls of the pelvis was filled with secondary neopla tic nod les which were white and either hard or soft. The orace of the uteler wa not diated catheterization was im possibl because of an adhesion of the ureter to an anomalou branch of an artery that was the cause of the congenital uronephrosis. The histological study of the renal liquid the free fragments of the main tumor and the secondary nodules ga re the same results

It was a processed up the looms. The surrounding connect tissue and the fulus were invaded by epithelial torum localized evpecially in the sheaths of the nerver and vessels. The walls of the cenal cavity at the points not movined in the new growth showed the ordinary chronic inflammatory lessons of uropyonephrous with interesting epithelial

changes keratinization of the epithelium in the region of the neoplastic podules

The conclusion is that congenital uronephrover resulted from adhesion of the ureter to an anomalous branch of the artery followed by pyonephrosis then secondary neoplasm of the pelvis and of the upper cally which was a cancroid with multiple secondary nodules and extensive invasion of the vascular and lymphatic connective tissue

Renal cancroid is identical with vesical cancroid in its etiology (chronic inflammation) and in its anatomical characters, being an infiltrating tumor with rapid ulceration pouring numerous necrotic fragments into the urine which have an absolute diagnostic value it is also identical in its clinical course and great malignancy. This gives a very clear cut picture of these urintry tumors which are not fare either in the bladder or the pelvis The demonstration of pathological products of ectodermal origin in the unnary mucous membrane seems to contradict the doctrine of cellular specific ity since embryology teaches that the unnary passages originate from the hypoblastic and mesoblastic layers The hypothesis of dysembryoplasty may explain these lesions in a circumscribed and limited form in the upper ureter and pelvis. Diffu e leuco pla 12 of these parts may be understood too if we admit the complex structure of the mesoderm from endodermic and ectodermic elements as some embryologists do But ectodermal growths in the bladder an organ of purely entodermal origin are merpheable The term inflammator, epithelial metaplasia does not take into account these peculiar I DEMONT

Brewer G E. Observations on Acute Hamile Infections of the kidney Am J U of , 1913 ix 549 By Surg Gynec. & Obst

The author accredits Albarran Fermee and Seagh a for demonstrating hame infections of the kidn y ht mg their origin in the renal parenchyma of micro-organism conveyed there directly Israel in \$91 called attention to the po whil ty of grave renal supprintations due to micro-organi mentering the blood current from comparati ely mid jocal to the control of the prompt and and are supprinted to the control of the prompt and and are supprinted to the control of the control

Reviewing his first series of experiments the suthers shows that in mone of the control an male which had received a moderate dose of pathogenes bacteria hirectly into the circulation without other injury did a surgical levon of the kidney develop 01 to animals which in addition to the incondition received as major, to one kidney 5 showed no lexion received as major, to one kidney 5 showed no lexion of the remaining 11 disputation degeneration of the remaining 12 disputation of the remaining 12 disputation of the remaining 12 disputation of the injuried kidney in 5 they were bilaterial in 1 of the balaterial cases the lexions were practically equal in extent and severity while in

the other 2 the lessons in the uninjured Lidney were mild in character and the animal undoubtedly would have recovered under favorable conditions

In the second sense of cases the author illustrates the fact that anemia and passwe byperame as lower the resistance of the origin to a blood infection as to result in definite surpical lessons. In connection with this he recalls the experiments of Lucas and Brastow Dopts who demonstrated that under conditions of increased pressure in the renal pelvas and ureter the renal circultion was greatly cimin shed which explains the marked susceptibility to infection in cases of hydronephrons

In a number of other experiments undertaken to determine the effects of small unert embols in the production of surgical lessons by means of blood infection the minute seeds of blue moss were employed. In 9 instances these were imperted into the general attent circuition and the animal subsequently insocilated as no other experiments. All of the dogs due to of them from symptoms of shock, or the subsequently insocilated as no other experiments. All of the dogs due to of them from symptoms of shock, or highly parcratities—it also showed a very few recall infarcts but there were no evidence of sepas. It is probable in these cases that only a few seeds. It is probable in these cases that only a few seeds are called the kidney and the damage done was not

sufficient to lower its resistance in any great degree
A reviews of the microscopical study of leisons pro
duced in these experiments shows that definite les or
when present were found destincted with those found
in our chinical brematogenous infections. In most
matances they were found to be due to a plugging
of the small arteries and capillary members
and an experimental arteries and capillary members
after surrounded by an entrained zone of round cell
infiltration. If the process is sllowed to go on the
bacterial embols are rarely recognized unit is reas of
necrosis and purulent infiltration are found. At a
still later stage many of these collections of put
caselect forming larger parenchymatous abscesses
which many rapture through the caposite giving rise
which many rapture through the caposite giving rise

to a permentritis The author d vides the symptomatology into three types first the hyperscute or fulminat ag which is so virulent that I proves fatal in a large number of instances long before any definite renal symptoms have t me to develop In this type the climical picture is one of an acute general infectious disease with few or no local manifestations The second type is somewhat milder than the one just mentioned but it also has a grave prognos s type is often recognized only after complete destruction of the Lidney and senously interfered with functional activity of the other through toxic degenerats e changes The third and milder type which almost a anably r co ers spontaneously without serious damage to the read parenchyma, to of interest to the surgeon chiefly for the reason that it furni hes a rational explanation for so-called idiopathic pyclitis and also for the reason that it accounts for certain ephemeral rises of temperature obser ed after su gical operations

In the first group or the fulnmatting type of the disease early nephrectomy offers the only chanced ide to the patient. The author has observed it cases of the severe type of undiaterul meletion of these s were untreated and both dead within twelved days 4 were treated by nephrectomy and dringer, all dying shortly after operation ten were treated by early nephrectomy and recovered In the second group early decapsulation will almost always abort the process and save the kidney. This release the next hypersemia and favors the early integral tion of the processes of repair. The writer has operated on perhaps eighteen or twenty cases of the type and while there was no port-operative destroyer and while there was no port-operative destroyer.

Regarding the third or mildest type of the disease all that is necessary in regard to treatment may be summed up in three words—rest water and urotropine fewir S Koti.

Hicks P: On the 50 Called Movable Kidney
Disease A Reply Procisioner Lond 1913 20
854 By Surg Gypec & Obst

The author replying to a previous article published by Monot states that he believes that apple roptions is to be accepted as a part only of the general splanchoptosis which will develop access or later and that in his opinion nephroptosis or later and that in his opinion applications or later and that in his opinion applications or origin of symptoms the eather stages to the lesser degrees of applications causing more direct budge symptoms. The author believes in application and although he admits the operation is often performed with undue haste and on imperfect knowledge as equality sure it is some cases respond splendidly failed.

Beheving as h does that nephropitions is only a part of the general viscerial proses, the author that that attention should be especially directed to the chology and early diagnoss of this condition and, more important than all to greventive measures. These would comist in proper exercise and development of th abdominal muscles in the young and freedom from downs in pressure produced from any cause. Measures to restore the tone and unporting power of the abdominal muscles should be enforced in cases of visceral plosss which ha e their coppin in pregnancy and labor. If I. S. vronn

Murard J Deceptulat on of the Kidney
Anatom cal and Phys ological Study (La décapsulation d rein Etude anatomaque et physiolgaque) / 9 3 347
B) Journal de Chururie

Murard's work show the result of experimental reservits on the rabbit and the dog II is conclusions which re given herewith re in accord with those of other experimenters complet removal of the capsule is easy. After t is removed there remax

a thin layer of connective tissue surrounding the idney from which the capsule is regenerated but this is anatomically distinct from the capsule Decapsulation causes some injury to the most superficial tubules but these lesions are slight and practically the operation may be regarded as harm less.

After decapsulation a new capsule forms very rapidly by the tenth day it as a finch as the normal capsule and later it becomes thicker and harder this new formed capsule has the same structure as the normal capsule with the exception that the fibrous bundles are less requisity arranged. Con trary to the opinion of d fulturer and Berarde and of Tuffer Merarde has never seen this regeneration of the capsule accompanied by death of the tenth of the capsule accompanied by death of the tenth of the capsule accompanied by death of the tenth of the capsule accompanied by death of the tenth of the capsule accompanied by death of the tenth of the capsule accompanied by death of the tenth of the capsule accompanied by death of the capsule accompanied by the capsule accompanied

From the point of view of increasing the circula ton decapitation is a useless operation Soon after decapitation the kidney seems to increase in volume and becomes softer. These changes in form and come tenry result from the fact that the kidney no longer being restrained by the capsule becomes garged with blood. The increase in weight under the contraction of the capture of the

The study of renal function after decapsulation shows as alg in polyuria with an increased amount of urea but these changes which take place in both kales; are slight and of short durito. Chinical experience seems to indicate that in man the effect is more important and less transitory. The new formation of vessels does not seem to play any part must be a titude with takes place immediately it must be a titude with the state of the place in the place of the place of the plant place of the plant place is not the plant place.

C LE ORM

b ncent W G A New Lidney Cushion A Two Compartment Aft Cushion Designed Pa tic ularly f Use in Lidney Upper Abdominal and Neck Operations Ved &c. 0, 1 tx. n 35 B S v G y c & Ob t

The a thor presents a n w kidney cu hi n w hi mprov ments ver the Edebohh cusho. The t nden y I the latter to slip it hase is overcom and whan n t fully inflated the pressure 1 diffused inster! I be g increde to a point also the insternation of the present protein of the present protein of the present protein of the present present if it is the present pre

The n w u hot triangular in shape and s
it is d d into two impartments the division be g
a horizo till jut abo e the center

The bee I the culture me sures 20x8; hes tand with beth imported its inflated is 7 \( \) inches hight. Fuch compartment is provided with an flati tube o bestions a 1s equipped with a

bicycle type valve so that whenever desired the degree of inflation may be decreased or increased in either or both compartments by a naive at a safe diatance from the operative field. One or both compartments may be partially or completely imflated to suit the requirements of the operation. Five years experience with this cushion has demonstrated its advantages over sand bags, and other types of air inflated cushions in operations in the upper abdomen thyroid tonsil and cervical adentits while in general work with the patient in doral position the partially inflated bag supports the lumbar curve preventing post-operative pain due to overstretching on a flat table

H G HAMLE

firm

Caulk J R. and Divis, T M The Phthalein T t for Renal Function with R lation to Op rative Procedures J Mo St M As 10 3 2 06 By Surg Gynec & Ob t

This study gives added proof of the extreme value to the surgeon of the phenolaughton-ephthalien test as an aid in diagnosis and prirticularly as an indication before operation of the functional activity of the bidneys. The authors summarize their findings in 25 cress of obstruction at the vesical neck, to cases of renal calculus 14 cases of renal taber closes 6 cases of pyonephrona and 2 cases of obstruction at cases of pyolitis 3 cases of hypernephrona and 2 cases of doating bidney as well as 147 medical cases in 14 of which

there was marked kidney disease
Two of the cases with urinary obstruction with very low phthalems died from unamia before op-eration. All of the others showed a diminished ohthalein output which almost invariably improved on prehminary drainage and in none of these cases was there any suggestion of post-operative uremia. In the calculus cases there was reduction in the phthalein in only two of the o cases which two cases had an associated pyonephrosis Of the 24 ases with renal tuberculosis five had bilateral lessons In the un lateral operated cases the ex cretion of phthalein ran parallel with the degree f renal destructi n Subsequent phthaleins in these cross showed immediately after operation a diminution but later n i crease of the output equal to or great r than it was before operation six cases of pyo ephrosis, the diseased side in five a th un lateral frease showed marked reduction t total absence of phthalein the total phthaleins in these ca es being about normal whereas in the bil t ral pyonephrosis there was marked total l min t n I is ases of mehtis three of hy nernephroma and tw of floating Lidney there was pra t cally a no mal appearance time and total all The authors emphasize the im norta ce f c mparat ve tests from time to time er h ase and state no lef nite percentage figure aboy which t will be safe to operate but con id th t each case must be judged on its own ndix dual and comparative findings

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Scott, S G: The Radiographic Technique in Pyeloradiography Proc Roy Soc Med 913 vn. Surg Sect 41 By Surg Grace, & Obst Scott insists that the catheterization and the injection be made by the surgeon, and on the Nersy couch in noution for the skingraphy so the prisent will not be moved as a slight movement might rull out the catheter Compression with the X ray tube does not affect the free entrance of the collargol into the pelvis The author does not recommend watching the solution fill the pelvis by means of the fluoroscope as it is difficult to see and takes a longer time Radiograms are taken at full inspiration and full expiration. The time consumed should not exceed fifteen to twenty seconds Torre G Broke

Kidd F: Pyelorad ography A Clinical Study Proc Rey Soc Med 1913 S rg Sect 6 By Surg Grace & Chat

Ridd reviews the progress of urology in the last thirty years and cites the uses of the cystoscope the röntgen rays and the cathetenzing cystoscope. which enabled the physiological and pathological value of each kidnes to be determined with accuracy This still left to be solved the anatomical problem whether two kidneys were present or only one and what is the shape size and arrangement of each

Lidney and preter This anatomical problem is solved by recloradi ography a shadow picture of the kidneys and ureter being taken while the nelvis of the Lidney is filled with a solution opaque to the X rays. The solution used is a five per cent collargol for thin nationts and seven per cent for stout subjects. He finds this so lution less protating than colloid solver oxide or He states that the solution of silver sodite has not been used in a sufficient number of cases

to establish kelly a claim that it is non irritating to establish kelly a claim that it is non-initiating Ridd insists that no amasthetic be given as it is important that the patient be able to tell when the pelvis becomes distended, by a feeling of fullness in the loin. If an agasthetic is given there is no way of telling when the pelvis is full and too much of the solution may be forced into the kidney solution is passed through a uretene catheter by means of gravity from a burette with a mercury means or gravity from a puretic with a mercury manometer attached, a pressure of not more than 30 mm of mercury being all that is necessary. A normal pelvis holds from four to ten com of the solution, which falls into the pelvis slowly and steads by until the pelvis is full when it ceases to flow As soon as the fluid ceases to fall in the burrette the skiagram is taken, and the catheter is at once removed so as to allow the solution to flow freely into the bladder as the longer the solution remains in the pelvis under pressure the more likely it is to penetrate to the cortex Pyeloradiography is of value in detecting congenital malformations, dilation of the pelvis and ureter either mechanical or in flammatory

Kidd had three autopsies where pycloradiography had been used. Two cases did not show any damage to the renal substance. In the third case the solution had penetrated to the cortex and the nathologist was unable to determine whether it had done any damage or not. On experiments made on fresh sheeps kidneys it was determined that infiltration of the cortex depends on the pressure and also the time the pressure is maintained

The conclusions are I The gaining of the knowledge of the evert anatomical state of the kidney and ureter before operation is of such vital importance that a method

must be found which will give this information
2 The most feasible method is to fill the renal pelvis with a solution opaque to the X rays and take a skiagram. This has been done in a large number

of cases with excellent results The solutions so far employed such as collar ol cargentos etc seem to irritate the kidney s I tile though the irritation is only a passing one and

is recovered from completely 4 It remains for future research to find a solu tion that will not irritate the Lidney

Aleantime collargol can be used in weak solu tions of 5 to 7 per cent under low pressure 30 mm and with as short an exposure as possible -- less

than fifteen seconds 6 Caution is still necessary in advising pyelo radiography and it should be employed only by those who are in a position to practice it assiduously in carefully selected cases, that is to say cases in which

otherwise an exploratory operation would seem to be necessary . The risk is far less than that of an exploratory operation It is probably not wise to inject more than one 7 It is probably not wise to inject more unless the conditions are very exceptional It is certainly not advisable to fill the same kidney

on three or four different occasions with strong solutions say is to so per cent as has been reported by certain authors force G BURKE Walker J W T The Early Diagnosis of Hydro-

nephrosis by Pyelography and Other Mesna A Swy Phila 19 3 lvm 766 By Surg Gyner & Obst

The author prefaces his consideration of this subject by pointing out the resultant effects of renal dilatation on renal function. In a fully developed hydronephrotic sac there is little secreting tissue the Lidney undergoing changes of interstitual nephritis, removal of obstruction is therefore not necessarily followed by recovery of normal function He cites cases where the impairment was demon strated by functional tests also a case of bilateral hydronephrosis in which removal of batruction failed in that the renal function became progressively worse The diagnosis of hydronephrosis in this stage is usually an easy matter and is not further considered in the article

It is evident that in the presence of beginning hydronephrosis the diagnosis must be made early in order to prevent permanent functional impairment The cause of the obstruction m y or may not be demonstrable by ordinary chincal means in the case of obstruction by an impacted stone a gradual dimmution in the seventy of the sitaction a gradual dimmution in the seventy of the sitaction as the contraction of the pelvis and uncter and, thereby of the muscular walls, which atmosph and lose their sensibility. Thus renal dilatation may increase with less and less symptomatic evidence. There may be however a constant ache in the kidney region and a permistent polyura. He cites a case in which marked polyura and albumm were present due to a calculus lodged past above the bladder Removal was followed by disappearance of the polyura and albumn

polyuria and automat.

If the obstruction is due to causes such as aber rant vessels value formations or congenial uncertail stenous the dangous cannot be made by ordinary clinical means and we must therefore resort to the rays and the unternal calatter. Thesy pripons are usually intermittent colicky pain or constant renal pain and polyuria but the preciate is rarely clear and pain from other causes, e.g. osteo arthritis must be differentiated.

The author lays stress on the unportance of careful and correct interpretation of lidney radio graphs and alliedes to the lack of normal standards. He has found that there is a constant ratio between the width of the vertebra and the size of the kidney. He therefore measures the width of the first three lumbar vertebras in the narrowest part projects a line outward bornontally from each vertebra equal to twice the above measurements. The three points where these lines termanate will mark the outer limits of a normal kidney. A urterial cather with half inch opaque markings will afford a

means of measuring the size of the kidney. The capacity of the renal pelvis estimated by Luys at 1 to 3 cm by Bazy 50 cm the author has found by andopraphs and operation i be 5 to 7 ccm as a maximum. He finds an objection by 50 cm and 5

A tudy of \ ny plates leads the author to believe that the renal dilatation may be of two types (i) \ renal type in which dilatation begins in the ealyzes which become elongated, club-shaped and considerably malarged before the pelvis enlarges \( l \) a "pelvie type the pelvis becoming more and more globular and the calyces flattened out He reports several cases allu trait git different types and degrees of bydrone-plusous and the differential and the continuous series of the real bladder. Where the diagnostical is those of the real bladder. Where the diagnostics in its vent ones forms were followed by coord results. Sources

of error in radiography are emphasized the author believing that injury to the kidney by collargol is very exceptional if gravity slone is used the receptacle never being raised more than 12 inches above the level of the urethrs and the flow stopped at the moment when pelvic pain is produced the use of an anasthetic is therefore unpublished.

HORACE BINNEY

Moore The Removal of Ureteral Calculi with the Operating Cystocope with a Report of Three Successful Cases. U of & C to Ro., 013 xvi 633 By Surg Gyncc. & Obst

The use of the operating cystoscope for the removal of ureteral calcult has received little encour agement from surgical writers and only a few suc cessful cases have been reported. The mortality of operation by section is high ranging in the reports of various surgeons from 6 to 17 per cent and in cases where complications existed the mortality rate ran as high as 52 per cent The cases from which these figures are drawn are taken from the reports of Leonard Fowler Deaver and others In view of this high mortality the assertion that the cystoscope procedure should at least be attempted is certainly not open to question. Successful cases of the removal of ureteral calcult with the operating cystoscope have been reported by Lewis Schmidt kelly Braasch Voschowitz Young Kreissl Casper and Kolischer With such an array of surgical talent as this in fa or of the method the procedure assuredly deserves additional study and des elopment

The diagnosis is often difficult, the stones may not show at the ureteral meatus upon cystoscop cal examination and may not appear in an \ras negative. In three of the author's cases where ureteral calcula evisted, the \ ray negatives were without indications of stone In the three cases here reported the operating cystoscope has been used successfully. In the first and third case the stone was wedged in the intramural port on of the ureter protruding into the bladder. In both of these it was possible to grasp the stone with the forcers which had been introduced through the cystoscope and to withdraw at one time the wh le perating outfit with the stone. In the second case of th series however the stone was not in sight the calculus was imbedded to the intramural portion of the ureter and the ureteral meatus closed in front of it In order to obtain the release of this stone a knife was passed through the cystoscope and the ureteral meatus was slit. The stone was then posed and was grasped with the forceps and with drawn successfully In another series of three cases the writer was able to dislodge ureteral calculi by the injection of oil through a urcteral catheter each of these cases the stone was in the lower portion of the ureter and passed shortly after the injection of the oil In all of the cases cited the symptoms entirely disappeared. In view of the results in his cases and those reported by other surgeons the author concludes that the natural course of treat ment following a disgnous of stone in the ureter should be as follows

T An attempt should be made to wash out the stone in the administration of large quantities of

it tille i nater i 3 mouth

The st ne h uld be removed from the ureteral
meature with forc pe through an operating cysto

1 In ureter should be injected with oil to cause passage of the tore beyond the gra p of the forcept of the real in hild be inc; ed over the intramural stone the transmit stone the transmit stone the transmit be removed by the previous methods.

5 Operation by section should be lone as a last

If the plan is followed the writer believes that the number of cutting operations for unreterd calcula will be maternally reduced. Although it may prove to be nly the exceptional case that can be relieved belone the cutting operation becomes nerve very the procedure will have been worth while in the avoid ance even in a few case. I the high mortality rate of unretend theories.

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The author gives a critical discussion of the cases of aguines hay up in the auter that he has earn an engineering of the continues and concess to the following the control of the form duration may under some circumst near completely manh late the function of a previously he lifty, ladors, and this acree lestruction of function in a lathy is incy may affect the other's direct years the the latest and the control of the con

In the treatm t f high pures f the uret r there a has between the f !! wing methods Ligation of the ureter which I ull only be undertaken I fun turnal test he shown that both belutely normal and if the hart is ot su h an in normal for these 500 11 ha generally be a thought sign fi i operat in In ca heet dieses the author recommend an operation tred by him il carries the stump I the gret through the qu dratu and sut res it to ke t the I mbar rego a mi meens a perm r at uneteral that r th t a time the uret rai a tula losed. The method has the ad antage over the hest on s that the affected Lidney is gradu lly excluded

3 The uniting of the two rads of the urcter over a magne sum tube which peration he explain 4 in pite of these methods he thinks, if the other hidney is sound the best and least dangerous method is externation of the kidner.

method is extinguished to the lidery. The autibor recommends Fraur's operation which with some modifications, he has weed sacers fully, in everal cases. The bla ider and uretim are formed from the mucous membrane of the vagens or bladder urrounding the fistula. The body of the attents drawn forward by sutmost colpitatory is so located that it almost competen the neck of the bladder by sature of sale lateral flain from the sames.

Rocher: Estravelical Method of Approaching

the Bladder End of the Ureter ('s section for rales d approaches 1s terminassen des untribs de la région correspondinte de la vessor). Gong de trait of the Proposition of the Proposition of Corrego Rochet thinks that to find the termination of the uriters in the blad let and the avoid and nerves that utround them 1) the abdominal route, the personnel destroy of the Hodder may be utdared as a prehumany step but it is preferable to go briough the personnel may not after plating the patient in th. Trendele burg position to draw the bedder described, upward and forward, and then the destroy of the personnel of the

## BLADDER, URETHRA AND PENIS

Averseng Forms of Pericysticis (Despinoyatio)

Cong d last fre c durat Par 19 5 Oct

By Journal de Chrurge.

Verseng h m that the great collecter spote has bed by Retz u around it histofiers and raily agone around the folder spote and the spot uners to here to ope et all the personal pale art f h that to the Hadder and secred it is them bit u. It rest of the pale is called the property of those which are localized in front of the pale person in the desired in front of the pale of th

difiem (pencystiti (i) The Then tre 4 serou form wh h n ris tage (a) the scientadipose 1 m wh h h tarterized by the forms tion of the a i I per tustic around the bird! ( the uppu at systed from which may be i i to not the badder wall or d top te ally in rel if | r toneum (4) the neum embe fahligms sou firm which is his an aten sion of th | ing frm (5) th diffuse phice t need to the t n son of the moreu f ut is the part conclusionath It accome panied by | ri ratt of the fladd r and sometimes the pent um nof m tend 1 & 3 direction (6) The constat fpen titt ma be a t

degree of cystitis even to ulcer and perforation compression of the ureter pyelonephritis pione phrosis and pernephriti. There may also be in testinal genital or general complications. There are three chief forms of extracystitis, as

follows

I The sclerois suppurative form the most typical expression of which is the woody phlegmon I The suppurative form with large abscesses which is the ordinary prevesical phlegmon with an abocess in Retzius space prolonged toward the pelvis

3 The phicamonous form in which the abscess extends outside the limits of the prevesical space It may invade the link fossa but has a special tend ency to open through the skin in the region of the umbilities or through some weak pot in the wall

such as the inguinal ring

The complications are the same as those of period to the whethaps a more marked preponderance of append x complications. Is to pathology they are disided into those originating in the bladder and extending outward, and those originating outside the additional control of the same and the sam

All the form he r subjective symptom which may be confected by the the reliamnation of the neighboring rgs s and objective ying the reliamnation of the neighboring rgs s and objective ying the reliamnation and combined pulpation. Actu extra symptotic on the contrary his cryp lear cut ying yellition of the contrary his cryp lear cut ying yellition of the contrary his cryp lear cut ying the reliamnation of the contrary his contrary

It is somet m if cult t diagnost pen y titis as the ymr tom in largely those of titis dat i ppear e and the legree of inten t th um ry mit m mut be ons dered a thu change in the urin and the hara t f tb bd maal dpel willigs Molth-citro refully tud I will lead t orre t linguous at co t to more lef stely localized it is n t so h rd t is gnose et t mu t be distingui bed from test n l tumors c t of the achu Ien tt i ftendi-co donly a ut pay th prognos gra e Ibat of diff rent forms f tr stusint were re and as they r more loc hard the le I themsel - bett t tment a w ll d agnosis but because of ther nes to n ghboring org n they may aux serial resit for u ted promptly

treatment of pencystius is essentially that of the cause. It may be necessary to operate on a byper trophed prostate an appendix, or a salpingitis however the pencystius itself sometimes demands pencil treatment. Extracystius demand a hypo gastine incruon and a penneal or vaginal counter opening

CATHELY has studied more particularly the forms of pencystus which he called synecological or post operative following dissection of the bladder in hysterectiony for fibroids and supportative pen cystits of which he reports a very curious case that had been titlen for a very rapidly developing cancer of the intestine and pentioneum. It was incused and followed three months later by a penneal prostate:

VERLIAC IN 52 cases of pericystitus tried to determine the relative frequ ney of simple fibro adipose pencystitis with or without adhesions to the neighboring organs suppurative pencystitis and pericustitis with perforation of the bladder. In prostatic cystitis fibro-adipose pericystitis is more frequent than suppurative in the proportion of 75 to 25 In gonorrhoral cystitis with stricture 42 per cent of the cases showed a simple fibro adipose pericystitis 35 per cent a suppurative pericystitis and in 2 per cent there was perforat on of the bladder In cystitis from lithiasis the proportion was almost the ame In phlegmonous cystitis fibro ad pose pency t to is relatively frequent 40 per cent th pericystiti is suppurative in 20 per cent of the cases and there was perforation of the bladder in 40 per cent

LECURE observed a very typical case of diffuse phelegonous perceptitus, characterate by general symptoms with almost no local up in a pen symptoms with almost no local up in a pen symptom of half of the pen symptom of half e poly alont serum. Chromic pen tion of half e poly alont serum Chromic pen tion of half e poly alont serum Chromic pen tion of half e poly alont serum of pen tion of half e poly alont serum of pen tion of half e poly alont serum of the pen tion of half e poly alont serum of the pen tion of half e poly along the half expenditure of the pen tion of t

BAY d the pen yet its into that of yeal and eath as I may an earth as I may and ment in the different location in which the xir vesical forms may or ginate. Those fives all r in may be cutted thronic and may leaf it the form to on continuous may see of

sel to ad pose the impulations in first and appears of the black rounds in first and personal partial personal personal

Pi alls attent n to two late n ult of pen al lammation due to uprapulue une n n fin n n u oper t n the bladder. The first of these, the termat m of a fulla in the bladd r because f a lifest between it and the posterior and our n all lifes eccond du to an attension.

author concludes that the natural course of treat ment following a disgnosis of stone in the ureter hould be as follows

In attempt hould be made to wa hout the

stone by the administration of large quantities of distilled water by reauth

The stone shall be removed from the ureteral meatus with I reeps through an operating cysto-In urci r should be injected with oil to cause

passage of the stone beyond the grap of the forceps
4 The wall huld be incred over the it tramural atone that arnot be removed by the previous methods

5 Operation by ection should be done as a last red 11

If the plane followed the writer believes that the number of cutting operations for preteral calculwill be materially reduced. Although it may prove to be only the excepts and case that can be relic ed. before the cutting operation becomes necessary the procedure will have been worth while of the a old ance even in a few cases of the high mortality rate of areterolithutors,

Mackenrodt A Treatment of High Injuries of th Lieter and Trestment of Defect and Injuries of the h ch of the Bladder and the sphincter of the I t thra for thehand in hohe liancetereristrungen f t Behanding von Belei ten and teletrungen des Litembales und es Sphincter urribre) Et le f Gebrik Grant By Journal | Chrutge 1913 feen 21

The author gives a critical discussion of the cases of injuries high up in the preter that he has seen an I operated on for several years an I comes to the foll mang conclusions. A closure of the ureter of ten hours duration may und r some circum tances completely annihilat the furction of a presiously h alihe kidney and the acute destruction of func-tion n a healthy kidney may affect the other kidney sympatheticall The mi resempted picture of the other bidn win two cases bowed that the epith I um of the f studente wa degenerating and was in all tages of necross to septic process was so this and there was no chang in the macro-copical appearance

in the treatm nt I high injuries I the ureter there i a ch is between the following method t Ligation of the ureter which should only be undertaken if a functional test h hown that both Ledneys are absoluted normal and if the heart is normal for these s son to not so h an s

significant operation a has go erails been thought In each, the I seases the author recommend an operation tried by him II carry the tump of the ur t through the quadrate and utures u to th kin in the lumbar region and aserts a liter a um the perm rent unteral cutheter ureteral fitula losed the meth I has the a li thtag over the first one in that the affected kidney is gradually solu led

3 The uniting of the two ends of the areter over a magnesium tube which operation he explains 4 In spate of these methods he thinks if the other kidney is sound the best and least dangenous method is exterpation of the kidney

The author recommends Freund's operation which with some modifications he has used success fully in several cases. The bladder and prethra are formed from the mucous membrane of the vagina or bladder urrounding the fistula. The body of the uterus, drawn forward by anterer colpotomy is so located that it almost compress the neck of the blad ler by suture of we le lateral flans from the vag na

Extravelical Method of Approaching Rochet the III der Land of the Ureter (loss extra es-les d proche a la terminason des weits de la et a correspondaci de la resuit Conf. d'i r feau et d'l'a 1913 Oct Ly journal de Chrange

Rochet thinks that to fir I the termination of the ureters in the bl iler and the vessel and perves that surround them to the abdom nal route sub perstonest d section I the bladder may be utilized as a preim nare ten but t i preferable to go through th pent neum at once after placing the patient a the fren! I aburg position to draw the bladd r I steelly upw rd and forward and then inc or the purioneum whi h loves the rector escal cut-de sac anteriorly in this way the ureterovescal region raily exposed 1 Desert

#### BLADDER URETHRA AND PETIS

rsenq Forms of Pericy titis (the percent ts)
( g d l franc d rel Par 10 g tlet
ll fournal de Chiturou Presen A

I went him that the great cellular space described by R t u pround th bindder is in r ality very well marked brided at the art ha sponen is the first per fild the penvencal face wort i be that the bladder and accords towardth umbeh u th net fthe pacess called ic there inflammations the pre-est pei which ffect the h the fich blackler are called peru titi those which are localized in front of the organ a live; r ; ifn m it l the prevence pelvic f ld the title title

lb n in livem f pencestate () The serou I m whi hi n h tag (1) the sclerohatacterized by the forms arinuse from whith lion 111 d I pose I saw around the bludic of the starts are teed from which may the telept unit the trade will release u i the perit neum (4) the ircum e ternali sente i phi im form which is nis an exten son f the r g form ( ) the liftuse phicy monous it is true it the at n ion of the t 1 t) pe -m 1 h th It accom han ed by t t t of the Lladd r and sometimes of the pet t um nima t nd nan irection (6) The mil t f mere titt mas be an

LE Fur, besides the case reported in his their reported three other cases of pencystitis. Two sere of genital ongus in men with very severe gonorthean and extensive suppuration one recovering apportaneously after evacuation of the absent to the bladder the other after a permeal incason. The third case was a primary case of pencystitis, sery probably of tubercular origin in a man of 28 who had genital tuberculous which ended in death. Parameter, protected a case of calculous perior-

ittis ending in death
Disvos stated that perivesical inflammatory
leanons frequently leave behind them functional
troubles which are not known because the patients
are dismissed from observation too soon. If they
are followed up for a long imme two sorts of cases
will be found. In one the peripheral milection reaches
the badder at it are peripheral infection reaches
to badder at it are peripheral to care. In the
other the unne is clear but the patients are obliged
to unnate with excessive frequency as in hyper
trophy of the prostate this trouble being worse at
night. Ordinarily there is polyura also Later if
the condition persists there is weakening of the
bladder muscle and complete retention develops

Heath O The Significance of Frequency and Tenesmus in Acute Cystitis Bull J 9 4 430 By Surg Gyaçe & Obst

Heath presents a case of acute cystitis of one months duration treated by an autogenous vaccine in 7 days time followed by an absolute and per manent cure without the use of urnary antiseptics or mechanical washiners of the bladder

The second of the control of the con

Examination of the unne showed a moderate amount of pus with numerous ves cal cells and both the stained films and the culti ations made from th centrifugalized pus showed staphylococci and bacilli of the zeross type but no gonococci

In the treatment of acute cystitus following a mixed infection, the author emphasizes three important points () That the genecocar disappear in the majority of cases and the infection being dept up by the other bacteria which had been present in the original discharge and that marked symptom of freque it muctuation and tenesmus after the act

are indications of a strong and healthy reaction to the bacteria (3) that frequency and tenesisus are part and parted of the process of cure, and should never be treated symptomatically (3) that tenesisus can be almost entirely and frequency partly con trolled by the amount of water taken by the natient

Active treatment was commenced by the subcutaneous inoculation of 50 million staphylococci and 25 million bacilli and 24 hours later drink was withheld for five hours to raise the bacteriotropic power of the blood and with a view to increasing the frequency and producing tenesmus This procedure was repeated at 48 and at 72 hours after the moculation as much water as was required to relieve the symptoms being allowed between times on the fourth day a second dose of vaccine of 100 million staphylococci and 50 million bacilli was given and 48 hours later drink was withheld for four to five hours for the reasons noted above. The symptoms after the second inoculation gradually improved from day to day and on the eighth day the symptoms had apparently disappeared altogether

A third dose of 150 million staphylococci and 75 million bacilli was inoculated on the svening i the eighth day in order to make assurance doubly sure. From that day pow over three years ago there has been no recurrence nor any sign of trouble and the unne examined on that day was found to be free from pus and bacteria and has been normal ever since. The Disconvertz

Stokes, A. C. Treatment of Tumors of the Blad der L of & Catan Rev 9 3 xvn 644 By Surg Gyaec & Obst.

The author endeavors to point out the different methods of procedure of operations for tumor of the bladder depending upon the origin and position of the tumor

The method of surgical attack preferred is the suprapulse region and in a certain number of cases trains rise incision and in every case a wide incision and in every case a wide incision and in every case as wide incision at least should be made and the bladder well exposed.

The author does not seem to think that the electrical methods offer much hope in cancer but in cases of disseminated papulloma that have occurred occasionally be believed he Dekenting Harte the control of the control of the control of the control of the timor by surpcial methods is best wherever possible budder should be therefore the control of the timor by surpcial methods is best wherever possible budder should be diagnosed not only as to the fact of their existence that the removal of the timor of the budder should be diagnosed not only as to the fact of their existence budders and point from which they arise in the budder and plant from which they arise the point from which they arise they are the point from the point f

best results, but dissection of the mucous membrane off of the walls of the bladder is occasionally valuable in sessile tumors when they are dotted over

different portions of the interior surface of the Madder

When the fumors arise from the prostate the prostate should be removed. In extensive careinoma the total removal of the bladder is indicated with the implantation of the preters into the rectum. which as ver offers the best method of procedure in these cases

Each tumor of the bladder must be considered separately as having anatomical relations which require special consideration. It is believed that severy tumor of the bladder is potentially malignant and should be so considered until proven otherwise af-possible

Bridgery H. A Case of Adenouse of the Bladder with Remarks on the Pathology of the Affection Am J U of tots, 12 tra By Surv. Gypec, & Obst.

The patient a laborer 48 years of age entered Rochet a Clinic at Lyons The family and personal bestory was negative. He complained of cobely name for some time but had noticed no calcul. The urone was thick and a hemorrhage had occurred shout three years before michighton was frequent and abundant there was no retention and no incon-

INCHES The physical examination of the Lidneys abdomen bladder and rectum was perature no calculus was found by sound but hamature was found each time at microrition and the urine contained hus

The nationt was weak had lost weight and was anemic Upon opening the bladder by a transverse incision the surface was found literally riddled with small papillomatous tumors, varying in size from that of a hazel-nut to that of a walnut All the growths that could be seen or felt were removed by cureitage or cautery. The harmorrhage was so severe that the bladder was packed with iodoform sauze for ten minutes, after which the gauge was removed and a drain inserted. The nations died four days after the operation

At autopsy the bladder showed signs of the recent operation the ureters were dilated from about two inches above the bladder to the Lidney and the walls were thin the Lidneys were cystic

Microscopical examination of fragments of the tumor gave e idence of a pure adenoma with glan dular tubules and stroma composed of young con

nective tissue

The author discusses in detail the old question as to whether the bladder uself contains glands and concludes that it does not only in the trigone but also in the fundus, at least rudimentary glands, a hich are capable of undergoing change and producing adenoms or carcinoma. The epithelium hing these ducts is continuous in adenoma the cells are colum par and often present LaryoLinetic figures

The author submits a new definition of adenoma

ta, as follows

These tumors are composed essentially of an agglomeration of elongated ramified glandular ducts. lined with a continuous layer of columns. enithelium distioned in a single layer the dista opening on the surface of the tumor into the bladder

In the depth they become invaringted in the submiscosa and even into the muscular structure and are seen either as full ducts ending in a mindel extremity without any acins or in the form of serv minute cystic dilatations

The author believes these tumors to be in many cases the forerunners of excessors. He delinember two microscopical types. First we have the er cumscribed type in which the tumor is supported

by a pedicle secondly the diffuse sessie type These tumors may be found in any part of the bladder. In none of the tumors reported conforming to the above description, were metastases found Chronic cystifis is a common accommanment of these tumore A'C Smere

Fulton J A. Gonorrhora Cured Through Use of Heated Bougle Northwest Med 19 3 349 By Suny Gyner & Obst.

The author recommends in cases that allow it. the application of heat which is administered by inserting into the urethrs a hollow bouge that a which are armed with a thermometer in order to control the temperature of the water which shoul be 110 to 120 F The water is forced through these tubes by means of a percolator each treat ment to be of thurty minutes duration. For each treatment the urethra is prepared by irregation with boracic solution followed by the application

of a 4 per cent to ame or cocame solution The author asserts that in acute cases after one treatment the discharge becomes watery and disappears in twelve to fourteen days. Only one acute case lasted twenty-one days. In acute cases the author has never made more than two heat appl ca tions usually one. He has never been able to culti vate the gonococci after one heat application

HARRY LEATS

# GREETAL ORGANS

Ferr C E Strangulation of the Undescended

1 S phila o j ) m 838

By Surg Gynec & Obst Testes.

This condition may be brought about by torsion. Linking or compression f the cord It may occur at any age but is most common in the first decade follows g puberty. U treated it leads to assepte gangre bacesa of more commonly sample In animal the gland is completely lost after 2 hours or strangul tion in men 75 per cent of the case treated required castration and in nearly all of the remainder the test a sloughed or atrophied

The mechanism of torsion I the cord is obscure It usually follows trauma p rticularly of the form can int increased intra abdominal pressure as (17) ing straining at stool he vy ling and athletic exercises Spontaneous untwisting of the cord is rare. The number of twists varies from a half to four or more complete turns, averaging less than two With the onset of torsion there is usually a serosanguineous transudate into tunica vaginalis

The symptoms of torsion closely resemble those of strangulated bubonocele even in some cases to the extent of complete obstipation but generally the symptoms are less severe the shock is less and the temperature and pulse are only slightly elevated the pain however is usually much more severe and comiting is apt to recur repeatedly Preceding symptoms in a case in which the testis is absent from the scrotum should cause suspicion of stran gulated tests It cannot however certainly be differentiated from Richter's bernia and his been mistalen for orchitis epididymitis and even in guinal adentis Immediate operation offers the only hope of saving the testis and relieving the patient from intense suffering. The prognosis for the patient is always good for the testis nearly

always bad except in very early or very mild cases The author reports 3 cases and gives data on 42 others collected from the literature

I B CARNETT

Shaw H B and Cooper R H On a Change Occurring in the Pelvis in a G1 of Prepuberal Atrophy of the Testicles. La d Lond 9 3 es. Le et Lond 9 3 By Surg Gynec & Obst

The writers report a case of pontaneous eunuch 16m in a young man of 24 At the age of 7 it was noticed that the testicles were undescended and manipulations were advised. At 17 they were still undescended and a truss was advised to force them down The testicles continued to diminish in size and at 24 were not to be felt except that there was a small sensiti e nodule in the right side of the scro tum hohun

The patient had no sexual desire erections had ceased to occu and there were no seminal emis sions If was tall and slender his face was boyish voice high pitche I h ad mesaticephalic. He had no beard no a illary nor pubic hur his skin was soft there wa fin har on he foreurms and his pomum adams was poorly del ped

Mea urament f the body sh wed the lower I mbs to be eight and five eighth inches longer than those of a normal m n of the sam ag

The ext rn t m asurements of the pel is are given follow d b those of a normal subject of about the same age fr mp rison Interspinous 9 inches (control o hes) int r tistal 10) inches (1116 inches) e t mal conjugate 7 nches (7 5 inches) between posters r uperior pines 4 ches (4 inches)

between tuber is his 3 in hes (4 nches)

The brim of the pelvis howed a defin te bulgi g inward n th neighbo hood of th acetabula sug gesting n ly st ge f trirad te pel is The con tour f the inf t w cordif rm and there wa wide separ tion i th jubic bo es at th symphysi The retain of the tran erse to the anteroposterior

diameter of the inlet of the pelvis was as 57 to 67 in the radiogram

In commenting on the case the authors call atten tion to two interesting questions which arise First is the long limbedness due directly to disturbance of the internal secretion of the testicle or is it an indirect result and primarily dependent upon secondary changes produced in the pituitary body by the disturbed function of the testicles In other words is gigantism a function of disturbance of the pituitary body only

The second question is What is the cause of the unusual shape of the brim of the pelvis?

With regard to the first problem the features connected with custration in men and the produc tion of eunuclism are clearly defined

Castration of men after puberty causes no mor phological change in the individual because although internal secretion from the testicle is no longer possible the influence is carried out by paratesticular or extratesticular tissues which after puberty are endowed with the power of performing the part previously performed by the testicle alone

If castration is carned out before nuberty is established then removal of the testicles means removal of the tissue which alone is canable of developing and maintaining the secondary sex characters

Castration before puberty results in the absence of development of sex-cha acters. The face 15 beardless the hair on the body is spare no hair develops about the anus, and pubic and avillary hair if present 1 scanty. The bones are less dense the skull becomes dolichocephal c the himbs long The thyroid is reduced in size the thymus enlarces and the pituitary body shows increased activity

The narrow g of the pelvis may be explained in two ways it may be due to old rickets or as suggested by Deery a reversion to a lower type as met with in apes and the inward bulging in the neighborhood of the acetabula due to softening of the pelvic bo es akin to osteomalacia which yield to the pre ure tra m tted to the heads of the Ih cetabular regions being the meeting point of the three bones thum ischium and os publ ha e hared in the delay in union noticed in the piphyse el eul re in the body. This want of solidificat n has led to the bones in these regions yielding to the increased thrust of the lemora

Buikly k Wilgnant D case of the Testici R tained within th Abdomin 1 Cavity & g 6 K 5 Ob 1 Q 1

Il) Surg Gyner & Obst

The uth r r ports tw original cases of mabe nant abdominal testes and collects for the first time in the English language the literature of the world on the subject F fty n n cases in all are reported In the first are male 42 cars old there was no congenital d formity e cept louble cryptor chid m no chil lien and no traumatic hi tory but

just short I the median line In the majority of 418 just snort I the median line in the majority of cases this has resulted in an efficient control of hemserhaue

Require I B: hursery of the Seminal Vesicles. Cloudend II J 1913 2th 801

Based on personal experience with reports of pasen on personal experience with reports of other exact the author states his belief that from the other cares the author states his desict that from the focal point of infection in the vesicle there may take place a perio leal absorption of infective material pince a perio near apportunion or innecesse materials eliber neisorian with streplococcus or staphylo enner nerswina with streptococcus or staphylo enecus of both with the ubsequent development of single or multiple grithmis either in the form of or single or multiple artifluits cluster in the form of chronic oxtearthritis of hypertrophical or atrophical enronic outer units of hypertrophical or atrophical type. He believes that chronicity of vesicular in ferion is due to the fact that the natural channels rection it due to the fact that the first is comments. ist drainage are incompetent in operation is somewhat different from the Puller method. He dor an inverted 1 include and after dissecting nor an inverse a measure and after dissecting down to the prostate he introduces two stout silk salures at the junction of the prostate and bladder pase baced as far laterilly as bossiple on these sutures rotates the prostate and bladder on ruce animical toraits, thus allowing just on and drainage with multiple puncture of their num rous dramage with muttine lumeture of their num rous

tor eye indications for drainage of the seminal vesseleaccording to the author may be summed up in three of the eye

according to the author may be summed up in three words pay pails and theumsti in Under the first heading are 1 Thore scute cases developing to the 'ourse of a Descripces in a pict the bear exempts breefut amn Those senie cases are embrid in the parte of a

Cases of recurrent epididymitis following acute lates prostatic enlargement

3 Certain cases of chronic searculat a where there urethnius and versculius a 8 defection steamstorthus and which ps s ocut mon sheunstoungs sun souch us testrent isled lathfully carried out non-operal; virestrevit Under the heading of pain reme those pairs complaints of persurent remeal sets with wear complaints of persurent remeal sets with wear writhritis prosposars; but other bossible writhritis prosposars; but other bossible with the condition have been claimanted for the condition have been claimanted.

The changes are seen engineers those cases in a h The minimatic group includes convertible had be twee a centure reactioning may be evalual and between and the joint legion

# MISCELLANEOUS

Kidd, F. The Diagnosis and Treatment of Harmit, Injection of the Urinary Tract for a con-land, 1913, 14, 609 B ware Conce & Con-

the bay a count from the deep need a course for

The claral the contraction at h (c) any (persons Tiley) is may

Spontaneous natural cure is the rule rather 2 opontaneous natural cure is the rule rither than the exception in hæmic infections of the man the exception in aximic infections of the unparty tract. In 9 cases of the 33 cure was oburnary tract. In 9 cases or the 33 cure was ob-tained in three to four neeks under rest in bed tained in three to four neets under rest in bed during the febrile stage copious drinking of water ouring the reorde stage copious drinking of water and urotropine. Fire other cases were cured in and urotropine. Five other cases were cured in three to six months while pursuing an mactive three to say months while pursuing an matrix regular life and taking urotropine. Ureteral care ternation in the very acute cases should await partial

termation in the very acute cases should and sub-idence of fever and vesical irritability That the kidneys may recover long before 3 Inat the Midneys may recover long penets the bludder was proven in six cases in which the urine from the ureters became clear and strike urine from the ureters occanne their and strike while pus and bacteria persisted in the bladder urine. The latter disappeared under vesteal lavage

nsumations La age of the renal pelvis cures most il not and instillutions 4 1.4 age or the remai peavis cause alone in no.

all of the bronic cases Four cases which has all of the bronic cases of treatment were cuted retired all other form of treatment were cuted. ted all other form of treatment were cured was hung out the renal pelvis with 5 per cent collargol two or three times. Collargol mioring consider two or three times. Collargo micrist no the pel to be absorbed by the renal lymphaus. nto the pet to is awarded up the renail i) mponing and ( n be demon trated in the lymphatic glands and the pettirenal fat Collargol of this strength dot not injure the kidnes as is proved by repeated unequalition nation of the uruse stangum all real tone and collared pyelo-radogram show obstruction [th ureter The uneteral cube

ma pr j st su t tu toa quamade bindosee Proxine bacters ma enter the urmay tract troes the phood tream by #3 of the boosts and of b the later as evidenced by two cases in

ne reported a re implestation red prompti b bladder la age. On th enc a ma w h b.la erial granulur kidnes nd .a, h and a man ded i free to the transfer I a let out but hed b and had the Death Ex ages of the ha h welve V 700 eat 14 WO 22 L. W. J. at war rar ~ a= at ank b mma 72"

----NICO MITA Lutra be Tara are æE 26) a. (1933 econd dr t . . . - 1777 FOOT Hemstegenes is a to reere that each wie - - 5 The care ابعتت w h er ento and mara ma-- WING COM

THE REST No to the ar \_~e\_evec بسياسين " "T well after Hart ~~ Itt ---حمد جين وا 

L Tank part of Arth - product and the Comment of th للتنا عنتند WALL COM

hypertrophied middle lobe acts as a hindrance to mictivition he recommends Bottini s operation

He recommends it in severe hypertrophy only when the general condition of the patient contramicrates prostatectomy. In severe infection of the prices prostatectomy on account of the possibility in the prostatectomy on account of the possibility marked abnormality of the Ludner function only pullative operations such as cystostomy or vasce tomy can be considered.

Rush J O Gumma of Prostate and Bladder SI Intravenous and Ou Intramuscular Injection of Salvarsan and Twenty SI Intra enous Injections of Neosalvarsan into Pa tient Susty Six Years Old Yed Re., 0 3 lxxx 26 By Sug Oyne & Obst

Rush reports a patient with guama of the protectie and bladder sho was treated with intravenous mjections of salvarsan and neoslavarsan. The patient 66 years of age contracted spyful is nice. The patient of 6 years of age contracted spyful is nice. The patient of the patient of the patient of the patient of the salvarsan after which he improved greatly. The author gave the patient are intravenous and one salvarsan after which he improved greatly. The surface gave the patient are intravenous and one of intravenous supections of nocal areas at short intravensa supections of nocal areas at short intervals with the most beneficial results. The conclusions of the author follow.

t Acosalvarsan should be given in larger doses and at shorter intervals covering a period of at least one year in all cases of tertiary syph lis

2 In cases of gummata neosalvarsan alternated with mercury should be administered bypoder nucally for a period of not less than o e year and where possible the neosalvarsan should be injected not longer than seven days apart.

3 Negative Wassermann reaction should not prevent the continuation of the treatment if benefit is noted by its continuation

4 In gummsta the Wassermann reaction may be faintly positive or negative, when the lesson is of serious nature and demands prolonged and con sistent treatment

S Wa Scrapts

Cumston C G Som Remarks on Sarcoma of the Proetat Am J Ural 9 3 500 By S vg Gypet, & Obst

Cumsto says sare ma of the prostate is found most frequently in childre under ten years of age and next in those over 50 a few instances having been reported as occurring betwee 10 and 30 years but none between 30 and 50 years Sarcoma is far less common than carcinom

Sarcoma is far less common than carcinom lairequently it is secondarly involved and the primary focus has been found in the vesicles right elbow, corpora cavernosa, and in the testicles Complete retention is often the first symptom to require a physician being preceded by dysuria or incomplete retention. There is no pain from the development of the tumor itself until finally it causes either urnary or bowel symptoms by obstruction either of the urethra or rectum

There is frequently exdema of the scrotum bulgung of the pernauen, swelling of the lower abdomen and cometimes of the limbs. By palpation the growth gives a sensation of fluctuation so much so that it has been mustalen several times for abscess and has been income and the jumph nodes in the inguinal region are enlarged and the growth involves the bladder until an authorist Death usually occurs within a year from the time of unnary disturbing the state of the properties of the

The sarcoma may arise from any point of the prostate and may involve a part or the entire organ. It is to be differentiated from by dated cysts of the pelvis by means of the cosmophilia and fixation reaction of Weinbery and Parvu which is positive in hydatid.

The author does not consider this condition one in which surgery can do more than a palliative operation and he recommends the complete permeal prostatectomy of loung as the operation of cho ce

Cabot II F ctors Influencing the Mortality of Suprapuble Prostatectomy S g Gynec & Obst 9 3 689 By Surg Gynec & Obst

In the author's opinion three factors contribute most importantly to the mortality of prostatec tomy the anasthetic the shock aside from bleeding and the bleeding itself Cabot believes that of the three anzethetics ether gas and oxygen and spinal—the last named is the best considered purely from the anæsthetic standpoint. The best means of avoidance of shock is in this same spinal anasthesia in that it blocks the nerve impulses from the site of operation He considers the proper control of bleeding even more important than is held ordinarily masmuch as the ability to withstand operations rests on a delicately balanced mechanism and any undue loss of blood easily disturbs this and lowers the patient a resistance Various methods of controlling bleeding are constant irrigation packing and uturing. The first named method is too naccurate the second is a more accurate and certain method but any packing means tissue necrosis which in turn invites infection which is so large a factor in mortality

Cabot believes that some form of suture as the most efficient method and his technaque as as follows: A much freer incison than normal is used to give a good ergonure, and the suture is applied to give a good ergonure, and the suture is applied to give a good ergonure, and the suture is applied to give a good give a most sufficient for the support of the support o

# SURGERY OF THE EYE AND CAR

EYE

Darling ( C: The Treatment of Trachoma with Speci I Reference to Expression and Fri tion with the Author a Ground-Ci sa Rod Ill on M of 51 1 50;

Darling has desired a ground glass rod to be used in the treatment of trachoms its method of use below as follows

If fore using the rod the eyes are flu hed out with a boric or yluopool buchburde solution to pit, a good mechanical clean ing of the conjunctival as a good mechanical clean ing of the conjunctival as a good mechanical clean in the properties of a good mechanical clean in the principal control is very sensitive a 2 per cent occaine solution in its return a formal in insultible although after a few treat ments a rather severe treatment is w if borne with out anothering.

The upper h is strain down and away from the eye and the red is introduced well up into the retrictural field the smooth and next the cornex and from the red is used without any mechanism or is dipied in the solution or obstitution to be used.

The lid is pressed again to the rod by the thumb of one hand and the rod moved back and forthe vir the mner variace of the lid and retrotarial fold with the there the lit is also tretched a little at the same time like military h. and forward

time by pulling the not forward.

The lower had are trusted in the manner or that the lower had are trusted in the manner or that the lower had is drawn ut when the pade or the trust are the same and the follucies are not expressed after a five trust ments they can be opened with a needle r kinde would be for the trust ments they can be opened with a needle r kinde would be for the trust ments they can be opened with a needle r kinde would be for the tid in musuage.

Prenderga t D & : A Report of a Case of Concussion Lateract Cleri of M J 10 3 835 Hybrig 1 yes & Olst

Prendergy I reports a case in an adult make aged 30 in which opacity of the lens developed beginning one week silter a blow over the 1 might and becoming complete after the third week. There was no evidence of injury to the eye the u cappacate dormal and no rupture in the capsule of the len could be myde out. You showthat look place after a dealy of one more all ng resulted in complete above he shay of one more all ng resulted in complete above he shall not a complete above he was not an evidence of the correcting lens. The taxe was reported because of the restry of concussion catasact without demonstrable injury to the capsule or other structures of the structures of t

Sn II A G.: Report of a Case of Dacryocyunta Presenting beveral Complications, Including Orbital Abscess and Optic Neuritis 1 13 J V J 2013 2 u 533 By Surg Gree 2 Ge.

In this case reported chronic darry ocystitis, with mil lly acute exacerbations, had exited for we end years in a man 63 years old. At the first examina tion the sac was found to be large and the nassidact impermeable so esturpation was advised his weeks later when seen again it was found that pressure of the eyebsil caused a large quantity of pus to be discharged from a fittula which had formed at the lower end of the sac and a blunt probe rould be naseed through the inchrymal septum into the orbit two and one half inches from the skin surface Operation was Iclayed by the patient for over eight weeks and dails progations constituted the treatment during this period optic neurits de veloped Fatifpation and drainage I the orbital infection resulted in cure and vision teturned to solton Orbital abscess as a result of direct ex ten on through the lachra mal senture t a very unu ual complication of dacts occupiti

I BIR B FOWER.

EAR

Cocks G II: The Indications for Operati & in Acute Mastelditis i II I 1913 uctif, By Surg Grant. & Obs.

The author states that difficulty aree in deeding whin to ope at in acut mastoristic because some cases though precenting the redunding long of material difference while others must be operated on early to present the hearing and to a ord laby inthine and intraramatic commitmatumes.

In differential diagnos he considers the aird discharge of cont derable diagnostic site as it a generally conceded that the streptococcus and streptococcus me cou ar more apt to cause aird mastend its than the pneamococcus and staphylo-

He considers the Hood ownt abushe in determining the present of untrainant complication and radiography, aduable 1 furm hing information in regard t the auttomy and pathology of the instead bone and a flet mixing furnishe 1 the external and tim anal with orderna from acute missionlike 1 121 J P Transion

Tobey Jr J I Acut and Chronic Suppursti n of the Widdle i r Beste M 5.5 J 19 1 ix 37 By Surg Gynet & Obs.

The uthor discusses the subject under the following head (2) Acute title 1 childhood (4) acute

otitis in adult life (3) treatment of the acute suppurations (4) chromic suppurative otitis and (5) complications and treatment of chronic suppurative otitis.

Infections of the middle ear are more common in childhood because of the relatively shorter and larger eustachian tube which more easily allows infection to pass from the nasopharynx. The greater prevalence of the exanthemata is also responsible for the more common occurrence of the disease in child hood The symptoms are variable but fall generally into two types In the first type the symptoms are very acute the child otherwise apparently healthy screams with pain has a rapid and high rise of tem perature often accompanied by convulsions and tosses about in bed occasionally it has retraction of the head and in fact may present symptoms of acute meningeal irritation. In the second type the child suffers from a gastro intestinal disturbance irrespec tive of diet, is very restless and artitable has marked variations of temperature will occasionally cry out as if in pain loses weight and yet manifests no acute symptoms as in the first type

The diagnoss of otits media in childbood is usual yeasily made by a carriel examination of the ear drum. The treatment consists in carriel cleansing of the canal parcentess of the drum and carriel aspects after treatment. If the discharge is slight the author ad ocates merely the insertion rather frequently of small strips of sterile gause. If the discharge is profuse he uses irrigations of bot sterile

water

The symptoms of oith: in the adult are first a sensation of fullness and a dimmittion of hearing in the affected ear due to the accumulation of evudate and closing of the estrachan tube followed in a few hours by sharp lancasting pains, increasing borning in character. Examination of the drum at this stage will show a much reddened drum which may be slightly budging. Irragations of the external cand with hot douches inflation with the Politicer of the property of the drum may be destinately budge and a paracentiest she be percessed.

The treatment of acute out is media may be dived unto its stages treatment of the simple middle ea 1 fection and secondly treatment after my ovicement of the mastoad. The treatment of the acute simple out is has all eady been outli ed in second acute of the second acute of the second acute of the second acute of the second acute of a postarula aboxes or an evodent infection of the neck. (a) upon the occurrence of a facial parallysis of a postarula acute of symptoms of labyminthus and (d) upon the appearance of symptoms of middle acute of symptoms of middle acute of symptoms of middle acute of symptoms of middle of the second acute of symptoms of middle of sympto

In chronic suppurative cities the conservative treatment consists in the termoral of all tissue which might interfere with efficient dramage such as adenoids bony obstructions in the nose and aumi polypi. Douching of the ear with warm water is collowed by mittiliation of a few drops of a saturated solution of borne and in alcohol. The vast majority of cases will respond to this treatment but in cases where this method is of no avail the removal of the drum membrane together with the millieus and uncus and the removal of all granulation tissue with in the tympanium often results in a cure. But in a certain percentage of cases the radical operation is necessary to effect a cure.

Pleter N. H.: Disgnosis and Treatment of Meningeal Complications of Suppurative Diseases
of the Temporal Bone III set W J to 3
nv 55
By Sur Gync & Obst
In the diagnosis of othic menungitis the author
emphasizes the various ways by which inflammation
spreads to the meninger First by way of the laby
nith through necrosis of the external semicircular
canal next through the promontory of the fenestra

rotunda, ostetits of the roof of the antrum and cavum and smus philebits. That the infection is by way of the labyrinth is demonstrated by the ertigo vounting and mystag mus which occur just before or many months before the menngeal symptoms. The most fre quent symptom is headache followed by stiff neck and in 15 per cent of cases the Kerwig sten and in

53 per cent the Babinski sign

These symptoms may be present in either a serous menungits or a septe menungits and the differentiation of these two conditions has an important bearing on the method of therapeuts surgical attack. In serous memogitis the spinal fluid is alboline and reduces copper. In septic conditions sugar is absent and the fluid and Round and polymorphomuciar cells and micro-organisms may be present in both fluids but in serous memogitis the organisms are dead, and in septic memogitis they are explable of cultivation. The mortality is over op per cent and therefore prophylaxis is of great importance.

Early operation on acute mattoit cases will prevent eremsion of the inflammation and in chronic cases early signs are warming that the meanings of are becoming irritated. When the symptoms of serous or espite ment gits are in full sway evacuation of the focus within the mandord and middle ear is essential. If the diagnosis is not clearly septic manufacts the dura should not be opened. Cerebrospinal pressure may be relieved in the humber subdural space is drained at the one is septice, the subdural space is drained at the one is subject to subdural space is drained at the one of the temporal bone or (a) through the ecupation sporting of the temporal bone or (a) through the occupial region anarely via the cutterns magna. W II Tragosom

# SURGERY OF THL NOSE, THROAT, AND MOUTH

XOSE

Ferreri C Treatment and Prognosis of Malig nant Tumore of the Nasal Force and Hypo pharyns (Fra tem nt et prognostic de tumeura malignes des losses n sales et de l'hype [h r) s) tech ter at d baryaged 1923 2 21 327 By Journal de Character

The author in view of the difficulty of operation and the numerous failures in the surgical treatment of extensive cancers thinks that no non-surgical procedure should be neglected which will secure improvement even if not cure in such cases and be devotes the first part of his work to a study of such methods

There is so little known of the ethology of cancer that it is difficult to establish rules for prophylaxis but there is no doubt that chronic irritation such as that caused by the extensive use of tobacco is

partly responsible.

If operation is refused or the tumor is too far advanced for operation medical treatment may be given with two objects (1) To act on the cancer germs destroying or attenuating the atypical or bacterial cells and (2) to strengthen the power of resistance of the diseased body

In all cases where surcome of the nose has spared the bones of the face, Price-Brown believes it can be completely destroyed by the grivanocautery In moperable cancers electrolysis is indicated

for it does not do any great harm and destroys the

greater part of the tumor Pulgurate a is difficult to apply in the nose and pharynx and it provokes an excessive and toxic flow of lymph the dramage of which cannot always be accomply hed successfully

Electrocoagulation by the local application of high frequency currents causes destruction of dis-Under the influence of Y rays, the cancer-cell

undergoes a process of involution therefore the I ray treatment is appl cable to malignant tumors of the nose that have attacked the skin

Radium treatment is at present regarded as one It is applied in of the best anti-cancer agents radiations of various strengths, either to the surface Viesothorium costs of the tumor or to its interior only half as much as radium and gives good results sulphate and bromide of rad um and actimum have also been injected into tumors Arsenic cannot be utilized for the local treatment of cancers of the nose and pharynx Among the substances that are known to have an effect on cancer cells are selenium C LAURENS. tellunum and e pper

Pract J A: The Friology of Hypertrophic Rhinitis. Ill nou 31 J 19 3 2500 545 By Surg Gyone & Obst

Pract takes issue with the accepted view that hypertrophy of the inferior turbinate is caused by increased negative pressure and irritation from direct pressure caused by deviation of the septum He points out that this cannot be the case since the hypertrophy is always found on the ude of the concavity and negative pressure is precluded from the fact that the individual so affected becomes a partial mouth breather When the sentum is normal the author believes localized hypertrophy is caused by the irritation of abnormal secretions, as in vinus dis-

Cases If no such disease exists, he thinks it due to an mutating condition of the blood due to autointerication He calls attention to the fact that if the septum be straightened the turbinate, whether atrophic or hypertrophic will return to its norm size without treatment. As the amount of blood to a part determines whether it shows hypertrophy or atrophy so either will take place according to the increase or decrease of the amount of air passing through the masal cavity

Ground M COATES

Levy R Diagnosis and Indications for Treat ment of Suppurnitive Diseases of the Assal Accessory Sinuses Dener If T mes 1913, 22201 By Surg Gynec. & Obst. The author considers it necessary to bear in mind

not so much the acute suppurative inflammations of the masal accessory sinuses, which are computatively easy to diagnose and usually yield to medical treatment but the chronic lesions which manifest trivial symptoms designated as latent until an acute exacerbation of the chronic lesson threatens the life of the patient unless prompt surgical meas ures are taken.

He thinks the accessory sinuses should be care fully studied in those patients presenting symptoms of nasal discharge or polypi, periodical localized headache or eye symptoms unaccounted for by errors of refraction and diagnosticated by means of local examination, transillumination exploratory punt ture or radiography

He considers the indications for surgical inter ference to be evacuation of the sinus contents, the establishment of free drainage, and the removal of diseased structures He deems the choice of oper ation to be a matter of judgment based upon expen ELLEY T PATTERSON ence

Ostrum L. Ventilation Rather than Drainage Essential for the Cure of Sinus D sease with Special Notes on the Antrum of Highmore Ill nos M J 1913 222 247 By Surg Gyace & Obst

Ostrum points out that as shown by the Cooper and Auster methods of operating on the antrum dramage alone is not sufficient for a cure but that on the contrary ventilation is sufficient in most cases Especially is this true in the study of non suppurative sinusitis in which the question of drain age is not an issue The author describes in detail the operation on the maxillary antrum through the middle nasal passage and claims much better results than in those cases where the opening is made below the inferior turbinate. The anterior end of the middle turbinate is removed and the normal ostium sought Ostrum a reverse antrum forceps are introduced into this and a large opening made forward backward and downward avoiding injury to the lachrymal canal the entire operation taking but five minutes A similar procedure may be carried out through the inferror meatus except that a trocar must be used to procure the primary opening. After treatment consists simply in cleanliness.

GEORG M COATES

Robertson A N: Chronic Mucocele Practitioner Lond 913 xci 875 By S rg Gynec & Obst

The author considers chronic miscocele as an aboces cavity a chronic supportation subject to acute exacerbations. As such dramage is the rational treatment and to obtain this the inferior canadiculus affords in many cases the only means culture. The control of the control of

Glea on F B Ind cat ons for the Correct on of Deviations of the Nasai Septum by the Gleason Operation Largeon & 0 3 rm 1 9 By Surg Gynec & Obst

The author advances the superiority of his operation for the correction of deviations of the septum with its adaptability to patients of all ages and the speed with which it can be done in comparison with the submucous operation which is suitable only in selected cases and frequently result in perfo at in selected cases and frequently result in perfo at in

The technique of the Gleason operation is as flows after thorough commission a seal saw is e gazed in the obstruction of a horizontal plane gradually third until the directio of the sawing is vertical thus make g a U shaped incision in the septum extending will antern and potent of the daviation. The lower edge of the flap is the pu hed unto the un batructed nost 1 ml the neck of th

flap breaks thus destroying its resiliency upon which depends the success of the operation ELLEY J PATTERSON

#### THROAT

Lilienthal H: Retropharyngeal Abscess the Safest Vethod of Draininge Med T mer 013 zh 355 By Surg Gynec & Obst

In dealing with this condition which may result from vertebral or occupital osteomychits and such bulging phlegmons from pharyngeal or faucial its gues as are frequently seen in children the author

advocates incision and dramage from the outside. The patient is usually in great distress with embatrassed respiration and deplutition and impediate action is necessary to prevent suphyras or threatened ordems of the glottus. The apparently immiles procedure of opening the abscess from with no rallowing it to rupture may cause a fatal spasm from the puse entering the larying, or be followed by fatal aspiration pneumonia. As general narross is extremely dangerous the author employs either sections of the control of the control

alypin or novocaine

The instruments required are a scalpel at least two artery clamps a pair of small sharp retractors a pair of scissors an aspirating syringe with long needle a grooved director and a thin bladed dressing forceps a tracheotomy tube should also be at hand The patient should be upon a hard padded table with a thin, hard pillow beneath the shoulders The local anaesthetic is injected along the line of proposed incision, and the incision about one inch long is made parallel to the postenor border of the sterno cleido mastoid in its upper part, extending through the superficial and deep lasers and platysma. Deep-er dissection is then made with a blunt instrument exploring from t me to time with a gloved finger avoiding especially the internal jugular vein. The aspirating needle is then plunged into the tense abscess, when a few drops of pus are aspirated just enough to make sure that the needle is within the main abscess remembering that there may be smaller abscesses in that region due to a breaking down of lymphatic glands Being assured that the needle is properly placed the grooved director should not be removed until the tube is carried to the bottom of the cavity and secured by suture to the skin or other

The symptoms will rapidly subside and if they recur within a day or two it indicates that the tube has been displaced which displacement should at ance be corrected. If the symptoms do not abute it is to be suspected that there is an undrained focus or general septic posioning. The safety of the above or general septic posioning. The safety of the above and the safety of the sa

j.el nd G A Th Development and Extension of the Limits of Laryngology Lary g. sope 0 3 B. Surg Gyace & Ob t Uter eat ndneg greetings to the members of the society the author in his p esidential address to the

# SURGERY OF THE NOSE, THROAT, AND MOUTH

MARE

Perrert G. Treatment and Projucols of Mallemant Tumors of the Manal Frester and Hypopharynx (Trastement et prognostic des t metus mal gues des louses manales et de l'hypo pharynx) irth at mai d'arynto! Hy journal de Lhururas

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high frequency currents causes destruction of distant tissues and profuse secondary hamorrhage Under the influence of X-rays, the cancer-cell

under the innuence of Ariaya, the table undergoes a process of involution, therefore the X ray treatment is applicable to malignant tumors of the nose that have attacked the skin

Ridmin treatment as it present regarded as one most restriction of the state of the tumor of the tumor of the tumor of the state of the tumor of the state of the

Pract J A The Etiology of Hypertrophic Rhinitis Ill nots II J 1913 EDV 345
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GRORGE M COATES

Levy R Diagnosis and Indications for Treat ment of Suppurative Diseases of the N sal Accessory S nuses Denor M I Issue 913, EXIL 2 4 By Sung Gruce & Obst

The author considers it necessary to beer in more so much the acute supporative inflammatons of the nasel accessory sunses which are comparatively easy to disgnose and usually yield to medical treatment but the chronic lessons which massies trivial symptoms, designated as latent until an acute encerchation of the chronic lesson until an acute encerchation of the chronic lesson until an acute encerchation of the chronic lesson until an acute are taken.

ures are taken. He thuks the accessory sinuses should be carefully studied in those patients presenting symptoms of nasal discharge or polypi periodical localized headache or eyezymptoms unaccounted for by error of refraction and diagnosticated by means of local examination, transillumination, exploratory puse ture, or radicography.

He considers the indications for surgical interference to be evacuation of the anna contents, the establishment of free dramage and the removal of diseased structures. He deems the choice of operation to be a matter of judgment based upon experience.

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thirty fifth annual meeting of the American Laryproperal Association reverse the enominous various of the field of Laryngology from the mere looking must be laryng with the laryngoscope unit with the discovery of cocaine and subsequent addition of the nose and adness, and the advent of endology is not studies of the putuitary body, the confines of laryngology have been extended to embrace most of the upper half of the body. He mode specially in He mode about the rapid strides made recently in

He spoke about the rapid strates made recently in preventive mechane and the notable advance in the perfection of endoscopy and urged the water dissemination of papers on laryprology in order that they may rome under the notice of the general practitioner and thus lead to early recognition of dangerous conditions which about the referred to the lary gologist.

#### ROUTE

Gaudier Lane a Autoplastic Operation on the Palate (Fal toplasts par le procédé a toplastique de Lane) Cong d lots f s d ch Far 10 3 Oct Bs Journ 1d Chrurpe

Gauder briefly describes Lane a method of closing congenital circle of the public II consults in the dissection of an esseous flap from the hony and membranous palate which is turned as on a payot around the free edge and autured to the opposite side laserting it under the fibromucous covering of the bony palate which has been dissected previously and to the dwiedd vail of the palate

Lane a method demands special instruments and great skill for he operated on very young infants mmediately after birth if possible. The originality of the procedure le as in this very point, for by using it in infants there being no teeth he could utilize a part of the gums for the formation of the flaps

Grudier gives the results of his use of the method for three years on so cases. This is a very small number compared with Lane's for it has not yet become customary in France to operate on such young children. Of the 20 operations only 12 were on children less than two years old. The others were on older children with maros cirits, and Lane operation as used in spine of the fact that the, had been be wished the recreating on the rum. The mortality of the ray under two years of age was 4. Of the of recruits, low was total failure of union twice and artial, for turns.

Federapiel VI N : Some Observations on Oral Abnormalities and Their Relation to Vedicin and Surgery Bis 1 J J J 1913 N - 25 By Surg Gyne & Obst.

Dental disorders are becoming of more interest to medical men and the importance of mouth by scene as being given due consideration along the lines of prevention The dentist is usually consulted long after dental caries has begun when the famil physician might have detected the trouble in its early stages Dental caries is largely due to errors of diet during the first twelve's ears of life Statistics show that from oo to zoo ner cent of school children are suffering from diseases of the teeth. Many secondary conditions arise from these disorders and probably many diseases of unknown origin may be due to tooth infection since the mayor portion of pyogenic nucro-organisms affecting the body enter through the mouth Oaler says that septic gastitus and ententis as well as appendicular pleanix, gall bladder and pyelitic inflammations are due largely to infection from the mouth. Wigman and Turner believe suppurative alveolar peridontitis to have been the causative factor in the majority of 42 cases of rheumstism and gout studied The masticatory function is important in the proper development of the jaws since chewing only soft substances does not evert enough pressure on the growing parts to ensure their proper formation Other causes of improper development are the early loss or the prolonged retention of the decidnous teeth Proper correction aids much in the reduction of month breathers Grosce M Co tes

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# INTERNATIONAL ABSTRACT OF SURGERY

MAY 1914

# MONTHLY COLLECTIVE REVIEW

# STASIS AND HUMAN EFFICIENCY

A BIBLIOGRAPHY AND SOME REMARKS

By JOHN BRYANT M D BOSTON

D Struct Collects Revere Status and Human Differency is introstumily temerical absorvated union thereto report in subject to wrist and of so wared a character that, is unpossible to include it all in one rever and at the same time p; a sufficient emphasis to each opinion to do it justices. Conveyor by it is not one or endeavor merely to outlane in most general manner the ground one red by the delicrent therene and to supply bibliography of the best strucks on the subject so that those ufficiently interested may term to original sources for more detailed information—[Deforma a Nort;]

TASIS and efficiency are closely related in inverse ratio a fact which has been appreciated since very early times

One of the oldest treatises on medicine in existence an Egyptian papyrus dating from the fourteenth century a c gives directions for the preparation of enemata and they were in com mon use among the ancient Egyptians Herodotus 443 B C wrote They clear themselves on three consecutive days in each month seeking after health by emetics and enemata for they think that all disease comes to man from his The Egyptians ascribed the discovery of enemata to the ibis In this same Egypt says Pliny A D 77 the bird called the ibis has taught us something similar He washes the inside of his body by introducing water with his heak into the channel by which our health demands that the residue of our food should Hippocrates, 460 B C considered that enemata were preferable to purgatives except in very strong patients and recommended the use of cylindrical suppositories of honey smeared with ox gall as a still milder form of treatment In early times enemata were given from a bladder or skin fixed to a metal or bone tube the enema syringe was invented in the fifteenth century

(Hertz) Soranus of Ephesus mentioned the olive oil enema in too A D and Suctionius recorded the following edict of Claudius, flatum crepitumque tentris in commeno emittere

In 1632 Spigelius had obtained a ratio of intestinal length to body length which holds a corporis proportione series good to-day longrora sint eo homine cujus sunt intestina and since his time the clinicians of the ages have been very busy Hooke 1705 experimented with auscultation of the intestines and Hen sing 1724 remarked upon the duodenal fosse Morgagns 1761 considered the question of ptosis and the relation of an insufficient supply of food to constipation In 176, De Haen considered variation in the position of the in ternal organs in relation to disease Haller wrote on the relation of constipation to auto-intoxication and said that the result might be fever harmorrhage consumption or insanity Swieten discussed hydrotherapy and Santonini modestly called one of the perstoneal folds about the appendix ligamentum nostrum 1789 understood the relation of constipation to piles, and Chalmer 1792 believed that there was a relation between diarrhora constipation variations in the secretion of bile, and intestinal

atony Powell 1800 did not think that con struction depended upon the absence of bile Monro 1803 recognized duodenal di tention and wrote on the neighboring fosse: Hamilton 1805 noted a relation between constinution and chlorosis Meckel 1800 wrote upon the length of the intestine and other related matters Chevalier 1810 first recognized dyschezia as a type of consupation advised the use of enemata and said of purgatives. "The whole intestinal canal is teased and pained for the defective action of that very part of it which i most remote from their influence Powell 1820, described mucomembranous colitis and Annesles 1818 believed that the weight of the faces in the crecum produced distention. Between this time and 18.0. Duges and Billard O Berrne Beaumont Blandin Schultz Phochus Reid Bell Rokitansky Roser Hassing and Kesteven con tinued the work of investigation on these lines

In 1853 Virchow gave a wonderfully clear account of the whole matter of intestinal ad hesions and shortly afterward appeared in 1857 the article of Trestz, which put the question of peritoneal losse on an equally clear looting. From these two naners may be said to date most of the modern work on these subjects and it may also be said that nothing has since super seded them in point of accuracy Virchow after evene due credit to his predecessors in this line of endeavor several of whom believed adhesions due to developmental influences or to the more mysterious intra uterine peritonitis proceeded to systematize things. He divided adhesions into three classes those of the unpur abdomen the lower abdomen and of the omentum and not desix localities in which they were frequent Occasionally be saw a case as at Warsburg of a child only a week old in whom the transverse colon was adherent to the gall bladder and he could not doubt that it was of congenital origin but as a rule he was inclined to think that most of the adhesions he saw in adults were of low grade infectious origin due perhaps largely to long continued slight trauma of the intestinal wall from the impaction of faces. He con sidered the clinical picture doubtful and thought it probable that many cases either had no attention paid them or were mistaken for gall bladder cases

The point of view to-day differs from that of Virchow only in that more weight to being given to the developmental errors. Honey who have had the largest experience with human embryology and the tudy of the focus, are coming to believe that variations, excussive

or deficient in peritoneal fusions have a far more important bearing on questions of invalidism in the infant the child and the adult than was formerly supposed Among excessive fusions may be mentioned the kink of the terminal ifeum Links at the hepatic and splenic flexures, at the sigmout flexure the band between the rall bladder and the transverse colon and the kink at the duodenoieunal functure. These are the cases most open to discussion. When the whole small intestine and colon is free on a single mesentery it is obvious that there has been a failure of normal fusion Some of the other cases are certainly due to excessive fusion and others are as obviously inflammatory perhaps of lar chow s type. In a third group belong those of a mechanical variety for which Lane is sponsor and a fourth is certainly composed of a mixed type Probably all types are represented and surely they are not all of one type it is however the belief of the author based upon moderate personal investigation that eventually the majority of the cases will fall into the class of excessive perstoneal fusions or the mixed type Riesanoli in a recent profusely illustrated and very interesting article goes so far as to say that all the adhesions found in the region of the cecum gall bladder and solenic flexure are from the same developmental cause and he groups them under the name of the ligamentum varioforme He lays special stress upon a mail and interesting struc ture called the lieumentum felleocysticum pilo rocolscum which is present to a varying degree in a large proportion of cases. In leaser forms at may do no harm but when markedly developed may be the means, for example of kinking the cystic duct by binding the gall bladder firmly to the transverse colon "It has been noted by many other observers among them Huschle Luschke Waldeyer Jonnesco, Ancel and Sen cert, Longetzny Flint, and Robinson Robin son used it in measuring the length of the ascending colon and noted that in an extreme case it was possible for a stone to perforate the gall bladder work down between the two surfaces of the ligament and perforate into the intestine without ever entering the pentoneal cavity. The ligament itself is of course merely the free edge of the lesser omentum drawn out upon the fundus of the gall bladder and as such is subject to the vagaries common to other pentoneal folds

There are certain points of election for trouble in the abdomen which will be found are almost all in connection with the normal peritoneal

\*Observations on 300 autopasts, to appea later

folds, the fold themselves being influenced by the di position of the blood vevel Robinson gives a list of 27 peritoneal fold which act a ligaments They occur particularly at the br support angulations of the inte-time as for instance about the erecum and the duodenum and the three flexure, and in these ame region occur the various forest of which Treitz i so to peak the father Most of the folds and fosce bear illustrious names as does almost every inch of the large intestine but the very recital of thee great name distracts attention from the When anything happens to the gut itself intestine about the terminal ileum or about the duodenal orifice or about the igmoid flexure it is a ually in the nature of a contraction which tend to decrease the caliber of the lumen the hepatic and a lenic flexures on the other hand trouble u ually comes in the form of bands which may produce increased angulation without necessary diminution of the lumen The splenic flexure and the duodenojejunal juncture are of interest from a developmental point of view as being the two earliest points along the intestine to acquire a firm attachment in fortal life by the left costocolic ligament and the ligament of Treitz respectively consequently the intestine performs its further developmental gyrations

from these two fixed points of departure. The gut it stell is lable to very ron ulurable variation in the length of the small or large miestime and in the thickness of its mu cle layers, while the ¡lenci flevure forms a natural disison between the thin proumal and the thicker distal portions of the large intestine and service the same potential of the gut may be completely lack nor. There is has pointed out that congenital stricture may occur at any natural angulation control the monoid fit unit and thin other than the same of the coccur in the vicinity of developmental diverticul such as that of Meckel or about the ampould of Vast that of Meckel or about the ampould of Vast that of Meckel or about the

Franke ha dem instrated the passage of the colon brieflus from the hepatic flexure through the lymphatics to the kidney and bladder and Barger and Dale have obtained fi immazolethy lamine from the intestinal mycou membrane

Figurer and Hess have made good their claim for vagotony and have shown the possibility of disturbance in any one of the three sets of nerves controlling the intestine while Paltauf Stiller Bartel and others have shown the seriousness of alterations in the ductives glands.

The extent to which faulty diet can influence the bowels is well enough known and Hertz has emphasized the part played by faulty habits To what extent one can regain centrol over one s cerebrum is shown by the work of Vittor

Druke and others have shown that the tuber cular individual has a distinctly horter length of intestine than the normal and from Werner and other comparative anatoms is we learn that there are two body types. On one side are the carmy oras with a narrow back, a long body form and a short intestine on the other side are the herbivors with a wide back a short body form and a long intestine. It eems that the holds good in man but since he is omnivorous one may find both types or mixed types in any clinic Harris has accurately recorded a constant dif ference in body form present in what he calls the middle zone of the trunk between normal individual and those with viceral prolapse the zone includes a region between the level of the lower end of the sternum and of the tup of the tenth rib Dickinson and Tru low Smith Lohlman Goldthwait Reynold and Lovett and many others have drawn attention to the constant error in posture of the chronic invalids under discussion

Here hit also plays its part. Albrecht I allom Smith and others have shown that the congenital defects responsible for certain cases of appendicitis and other troubles have a tendency to occur in families. Consanguinity alcoholism and syphils are understood factors but the fact which Wood mentions that in otherwise model pirents a ingle impregnation of the owim or sperm cell by alcoholic indulgence at the time of conception may produce its effect upon the future

child has not been so long understood It will be seen from the foregoing cursory glance through the extensive literature on this general sul ject of stasis and efficiency that many able workers have been engaged on different phases of the same problem. It is well that it should be so for it is one of the most serious questions confront ing the medical profession to-day Increasing med ical skill has resulted in prolonging the lives of large numbers of persons who would otherwise have yielded to the old law of the survival of the fittest Consequently unless something can be done the race is on the down grade But fortunately the outlook is still bright it lies in the direction of improvement of the children that they may be physically better parents—perhaps in the direction of urgical relief of adhesions before there has been time for the establishment of more serious conditions, such as a dilated duodenum or an incompetent ileocacal valve which may cause troubles difficult to exercome

The following excepts from the hterature will supply the concisions. The treatment of chronic bowel obstruction associated with automatication has lately been the subject of much discussion and it has seemed to me that anything which will help us to clinicidate the real lacts in these admittedly difficult cases and to discover the pathological causes which underlie the condition cannot fail to be of value at the present time. I cannot agree with Lane in considering that all these cases possess a common pathology. It seems to me that there are a great number of causes for this condition. (Mumnery)

The problem is comprehensive enough to accept all the assistance it can through gyamastus abandages regulation of diet and habits and still furnish an abundant per cent of human wreckage (Lane) for the surgeon to attempt to reclaim (Schachner)

The author was led to th. study of the literature of stass by his researches on the occurrence of ptors which have led him to results which he hopes will prove of practical surgical value Others may not have appreciated the great amount of attention given by previous medical writers to the subject. He also acknowledges his indebtedness to Prof. C. S. Minot for his value able advice in proof revision.

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# ABSTRACTS OF CURRENT LITERATURE

# GENERAL SURGERY

# SLRGICAL TECHNIQUE

# ANÆSTHETICS

Clark G II. Chloroform Ansesthesis in the Light of Physiological Research Glass & M J 19 4 hxxx 33 By Surg Gynec & Obst

The author refers to his work with Cathcart in which it was found that when animals are really deeply under an anesthetic the heart is very much less succeptule to the effects of CQ, than when they are lightly under. He then briefly reviews the danger of acute chloroform poisoning with be liability of sudden death more extended consideration is then given to delayed chloroform poisoning. He particularly emphasizes the fact that experimental work has shown that chloroform is even more likely to cause delayed poisoning in pregnant dogs and cats than in non pregnant individuals. He believes the use of chloroform as an anesthetic should be discourated.

Danis, R Sacral Amesthesia in Operations on the Permeum and True Pelvis (L. cathés transacrée da s les opérations ur le pénnée et le petit bassin) C g d PA f d k 9 3 Oct By Journ 1 de Chiurgie

Dams emphasizes the fact that local arresthesia is become g increasingly important in surgery every day and describes a new method of producing it which con ists in injecting novocaine into the secral foranism. I large area is thus rendered amentation critically the penneum the external genital organs with the exception of the testicles, and the true pelvis and its contents with the exception of the body of the uterus and the ad

The patient is placed in the abdominal position and a long slender needle is inserted at a point a finger is breadth below the posterior inferior that spine and a finger is breadth from the mediant point and the posterior of an one and one half per cent solution of anoncaine-adrenalm are injected. This is repeated a finger a breadth lower in the fourth social foramen and also on the opposite side in the case of blakeral operations.

The author has used this method in operating for bemorrhoids, in a curettage and in removing a cancerous rectum. He cites some operations per formed by Lappens with it especially one in which be injected alcohol into the third and fourth sacral foraming in a case of stubborn coccygodyma. The results were cood in all these operations.

J DUMONE

# SURGERY OF THE HEAD AND NECK

## HEAD

Depage Uranoplasty by Transplantation of a Flap from the Upper Lip (Uranoplaste pa transplan tation d lambeau de la kire superieure) 1 See beige d h 19 3 xx No 6 By Journal de Chrume

A young noman of 18 had a classical compound unlateral harelip She had been operated n in unlancy but circattrastion had been defect e the labal otch was very pronounced and the nostral was thickneed and ery much enlarged a keloid had also formed in the scar and she had a pronounced wolfs jaw.

Depage s operation on the case was as follows
At the first operation the posterior part of the vault
of the palate was successfully reconstructed three

months later the antenor part as constructed with less success. To a months later the patient returned is an operation on the harding as discontinuous and in flap from the ip being used to close the eldert in the palate the flap being left adherent to time mucous membrane at its upper angle. After the edges of the defect were freshened the flap was drawn through the na al foss so the orifice in the palate and sutured to the freshened edges the wound in the just site in sturred with endodermal sutures. The reconstruction of the harding was perfect there was no north the scar due to the perfect there was no north the scar due to the regained its normal shaper and only the complete at mouth the pelate was seen to be complete a the mouth the pelate was seen to be complete as the antenor part the flap could plandy be seen marked of from the rest of the vauil Deloré and Santy Bidateral Ankylosis of the Temporo-Biaziliary Articulation Successfully Treards by Double Resection of the Rock of the Condyle (Un cas dankylose blateral de l'articulation temporo-anxillare ratié e e aucrè par la résection double du col du condyle) L. self 19 3 No 42 By Journal de Charrigre

This ankylosis appeared in a woman of 27 follow ing a serious post abortion injection. Pain and other symptoms of inflammation had been absent for more than ux months The left jaw was anky losed in a nosition of slight flexion. Delaré made an L-shaped incision divided the neck of the condyle with a chisel and mallet and resected a fragment a cm long, including not only the neck of the condyle but a portion of the lower border of the sigmoid notch and finished by interposing a flap of masseter The same operation was performed on the right where an even firmer ankylosis was discovered Three or 4 mm were resected and catgut inter bosed The dental arches were forcibly separated with a wooden wedge which was replaced by two torks placed between the molars, holding them apart on the sixth day the corks were removed for some hours and some movement allowed on the fifteenth day the nations could masticate without pain The perfect result was due in great part no doubt to the integrity of the muscles, which were not yet retracted R LEMCHE

Elsberg C. A Some Immediate and Remote Results of Fractures of the Skull and Spine Am J Su g 1914 in 18 By Surg Cynec & Obst

In injuries to the skull Elsberg considers injury to the brain to be of chief importance. He is not inclined to agree with the surgeons who operate in every case nor with those who claim that epidepsymore often follows in cases not operated upon

He considers it to be mainly a question of diagnosis Conservative treatment has been practiced with good results in cases of tracture of the skull without displacem in of fragments

About one third of Elsterg a cases have des cloped polepsy after one or more se in in the majority of such cases very little is found at operation to account for the convulsa escauses and unfortu ate ly only a few of the prinent can be permanently rebesed by interference no mit the what the surgeon

The indications for operative should be based, upon the diagnose of the condition and whether there is an ad and ray or stationary, lesson. In creat any stupy or creas any stupy or creas any stupy or creas any stupy and anytheraps to convolut a notice to parally as and withchings to convolut a nidicate normal manufactural pressure. Eliberty divides his cases of fracture of the studie to drive classes.

I In cases which sh w idences of fracture of the vertex with few or no brass symptoms it as better to hait. During the course of a few days after accident symptoms of slow enous bleeding or cedema may develop an exploratory puncture of the brain may then be done with increasing symptoms subtemporal decompression may be

2 In cases where there as partial or complete loss of consciousness weakness on one side of the face paralysis of the upper limbs etc the operation should be the removal of depressed fragments and extravasted blood.

In cases of fracture of the base of the shull as use as subtemporal the drompresson should be done as as sugar of increased intracranual pressure spokers. For fractures of the spine where there is evidence of complete transverse lesson of the cord Ebberg advises a let alone policy but an incomplete drawn of the cord between the cord and the cord between the cord by dislocated or fractured bones open on the cord by dislocated or fractured bones open to should be performed at once Lanosz Com-

Landon L. H: Hiermostasis in Cranial Surgery Surg Gynet & Obst 914 xviii 95 By Surg Gynet & Obst

Due to the Iree blood supply of the scalp and the complexated venous return control of humorings a very difficult. The author advises for superficial humorings in operations for exposure of the gaserian ganglion sub temporal decompression, the Macchitul Praneer most to the putuatory sade posterior to so, so operations a specially constructed table which will sillow elevation of the head without displacement if the field of operation. In case, the substitution of the patient of the humorial postion is indicated. The late of rapidly falling blood pressure return of the patients to the humorial position is indicated. The late of a contribution of accretions are considered to the first of the contribution of accretions are considered to the contribution of the patients are the put under effect.

The encording fournouset is the best method of controlling acap hemorrhage where it is applicable Landon calls attention particularly to his specially devised metal fournoused consisting of a thin flexible spring steel encording band, 14 mm wide with the thickness of the ordinary steel tage measure. It is broken for and aft postenorly there as adding joint controlled by a giving. The friction between the band and the gause covering the head stream on the spring disting advantages among the stream on the spring disting advantages among the stream on the spring disting advantage among the stream of the spring disting advantage and the stream of the strea

In applying the tourniquet the head is covered with three or i in layers of sterile gause. The instrument being of metal may be sterilized in indestruct ble and may be readjusted tightened or lookened to any desired pressure or removed at any time during the operation.

In large cortical cerebral tumors with greatly exaggerated communication between the intracremal

vens and those of the scalp the use of a tourniquet may only serve to increase the harmorrhage. Here grasping the edges of the scalp wound with Allus harmostats, or other scalp clamps is preferable. Lagation of one or even both carotid arteries may be considered using metal clamps which are later removed.

In suboccipital cramectomies the deep back stitch running atture circumventing the wound is a great advantage. This is carried down to the bone each stitch overlapping the preceding and runs from one mastend process to the other. Bleeding from the diplice is largely controlled by using the Cyres paral osteroome for cutting the flap—control

to the first detection and the bone dust since to the inction and the bone dust a control has been appeared to the first and the bone for the control has been appeared to the dust are frequently stoped by the application of cotton wring out of boning saline solution or by the application of his of amiselt issue. Lastly the pal vessels are ligated by using silk in fine curved need that at the close of the operation bemorrhage is persistent dramage is always employed either rubber tissue or gause soaked in sterile light up the control of the

FRANK RECKORD

Marie M P: Trephuning the Healthy Hemisphere for Decompression in Some Cases of Cerebral Remorthage (De la tripa 100 decompress de l'hém; phe sa d us ce tams cas d'hémorthage cérébrale) B U d l c d d saté 9 3 12 4 5 By Jo raal de Chrunge

In creebral hemorrhage the sudden truption of blood produces the apoplectic stated. which is a transitory phenomenon the compress on of the brain produces coma, which is a perastication of the memorrhage it shows that the normal hemisphere hemorrhage is those that the normal hemisphere where the produces of the contract the normal hemisphere of the compression. It would be dangerous however to perform the trephungs on the side where the hemorrhage is taking place as there would be danger of increasing the hemorrhage and of its teaching and the contraction of increasing the hemorrhage and of its teaching and his blood would except into the archinod and blood would except into the archinod and done on the normal ade

Trephanng as not indicated in Il cases of crebral harmorhage. The past at its a whom it is done should not be too old decided albumnum is a contra indication. It is preferable to operate before the temperature rises. If the come it complet within a few hours it is to be if red that the quantity of blood is so large that the actended so fartoward the base if the brain that a decompression operation would be madequate. A decompression trephane out into ling the dura matter is neither deficient.

nor dangerous It has been done four times with out any accidents but it should be done in time M. Corrottan

Thomas W S : Experimental Hydrocephalus J Exp Med 9 4, 12 106 By Surg Gynec & Obst

Thomas produced internal hydrocephalus by injecting aleuronat an imobible granular substance into the weatricles. He found that this produced first an acute and later a chronic in flammation. With chronic inflammation obstruction occurs followed by a low dilatation which reaches its maximum in about two mouths bottruction causing our hydrocephalus more observations of the control of Sylvius or probably with greater frequency at the foramen of Magnetie Janes F CRINSPILL.

### NECK

Ossokin N I.: Innervation of the Thyroid (Zur I nerv toon de Schilddruse) N wool II stark 9 3 xx 673 By Zentralbi f d ges Chu u 1 Grenzgeb

This is an experimental investigation of the viscomotor and secretory innervation of the thyroid In regard to the viscomotor innervation the author comes to the conclusion that the simulation of the superior laryngeal as well as the inferior laryngeal cau es changes in the circulation of the blood in the thyroid Both nerves have viscodiator and viscomitine of Both in the viscomition of the blood in the contribution of the blood in the contribution of the size is the contribution of the size that the viscomiting the contribution of the size of the contribution of the size of the contribution of the c

In the investigation of the secretory fibers of the laryngael the suthor agrees with Ascher and Flach that the eristence of such fibers is proven from the fact that its stimulation has the same effect as thymod secretion in increasing the irritability of the depressor nerve and the effect of adrenalin. He accepts the dependence of the secretory activity of the thyro of on the laryngael nerve and concludes from that that a simultaneous stimulation of the vagus and larynged must energie more of an in vagus and larynged must energie more of an in the vague and larynged must energie more of an in the vague of the

The author concludes that (1) The vacomotor fibers for the thyrod he chaefly in the lary ageal but also to some extent in the superior and inferior pharyageal (3) the e intence of vascoentistics in the thyroid is shown by the effect of admanlar (3) on stimulation of the laryageal neve there is crease in that if the acceleration of the crease in the crease in that if the acceleration of the crease in the case in the crease in the cre

BRESONSKY

Wilson L. B Relation of the Pathology and Clinical Symptoms of Simple and Exophthal mic Golter J Am J Att 2014 1 11 By Surg Gynee & Obst

1 Practically all cases of chucully true exoph thain c gotter how marked punnary hyeretrophy and hyperprises of the parenchy nan of the thyrodigand I untermore the church tage of development of the pathologuel condition is sufficiently mixed degree that the churcal condition may be estimated from the pathologuel cammination with about 80 per cent of accuracy. The degree of seventy of the chuncal condition is sumiarly paralleled by the pathologueal condition in the gland level of the pathologueal condition of the gland level of the pathologueal condition of the gland level of the pathologueal condition of the gland for relationship between bypaticiple was dyperplassed the thyrood gland and the clinical ymprous of true exophilabiling gouter; a reaszkably constant.

2 While m id degrees of hypertrop by and hyper plasts within physiological limits may be present in the thyroid giral particularly in the young and during pregnancy yet the absence of this condition in the thyroit of addits coming to operation for tosic non-esophihalmic and non-toxic gotters is most atrials.

s lieven per cent of all the thyro ds on the imple gotter it showed as their principal halhological change a secondary regeneration of

atrophy per neliging

4 lift the thyrouls which showed secondary
regent ton were from patients whose chinical
symptoms we markedly toxic non-exophthalmic

5 Fort's per ent of the thyroids from path t in the simple gotter 1 twent in mobility many per path to the thorough the so-called fortal adenomities type.

6 Less than 65 perc at of the thyroid from patient a the exaphth-line gotter it is but more in a 44 per at of it thyroids from patient on the sampl gott list can sit principally if groups of dikt is a blief ash that, densily staining colloid in te it ind lined with atrophic parachyma.

S ulord A II and Blackford, J M A Comparative 'study of th I flects on Blood-Pressure of the I tracts and Serums of Exophilalmic Golter and of Other Substances J I at II A 19 4 is 7 By by G Gyace & Obst

The authors used fresh ext a ts of hyperplastic thyroids made so that a com represented a gm of firsh gland. These extracts were injected leavenessly into does and the effect on the blood pressure noted \ \text{Arous other substances were used in souries\ \text{Witter leaves the substances were used in controls\ \text{Witter speptone} — to per cent solution—extracts of normal thyroid sarcoma hypertrophic prostate brain and the serium of going patients A marked fall in blood pressure is produced by by perplastic thyroid extract followed by tolerance to subsequent injections\ \text{Sim lar results are obtained with sear from patients suffering with acute exophibalisms goiners\ \text{Arous the control of the co

Warine D Further Observations and Experimentson Golter So-Called Thyrold Carcinoma in Brook Trout It Prevention and Cure J Lap Med 914 2 x 70 By lurg Cynec & Obst

After faverifesting gostron trout in a provide hinthery Markes find that I educy the striked and incomplete durt of here is the prancipal cutological factor in branging about this stull of nutries which is at once corrected by feeding whole sea fail water plays no essential part in the etiology, transmission or distribution of the disease in the hatchery investigated. He concludes that point in the hatchery investigated He concludes that point in time I fault of nutrition the exact blockenized nature of which has not been determined.

I MES I CHURCHELL

Marin D Observations on Tetany in Dogs-

Manne tites that accessor, partityrold issue in present in a to 8 per cent of dops. The easiest method of diet im ning this in a dog as by giving calcium shad diy for twr "three weeks alterdong as apparently complete parathyrodectomy. In the alsoner of all parathyrod issue the number of the alsoner of all parathyrod issue the number of the parath ril tassu interesting the control of the parath ril tassu interesting and in the colcium salts will save the num 1 fee.

"In I tors other than the amount of part hynoid removed indurence the onset of tetany among whi hart go pregnancy lactation rachine. The the almost varion of sulphur and dut. The monaid of the pa athyroid lowers sugar tolerance but rarel to the degree of const in glycourus. This feed go the constraint of the constraint of fount I have no effect on the parablyroid teasons of does. On the other hand calcumated and the tolerance of the constraint of the constraint of the least of the constraint of the constraint of the part of the constraint of the part of the constraint of the constr

Junes F Controls.

# SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Judd E. S Chronic Cystic Mast tss J M ch St M Sec 1914 xm., By S 1g Gynec & Ob t

The pathological pictures of chronic cystic mastitis vary so greatly as to lead to the belief that many of these pictures are different stages of one and the same process \u03b1 arison observers be lever that chronic cystic mastitus is a precancerous stage and that the type undergoes malignant deementation

Chrome cystic mastitus is in itself a benign condition and except for its evident relationship to cancer and to relieve pain would not require treatment. The unsatistactory results obtained in operating for well defined cancer would indicate that progress in the surgical treatment of this disease will be made by operating in the precancerous

In a sense of 218 cases of chronic cystic mastitis operated on in the Misso Clinic up to January 1 ogs there were 207 females and 11 males. In all of the males the condition occurred between the ages of 20 and 30. In the females 10 occurred between 20 and 30 years 30 between 30 and 30 years 30 between 40 and 50 years 27 between 50 and 60 years and one between 60 and 70 years the age of one was not mentioned. It will be seen that a large percentage of these cases occurred in patients between the ages of 40 and 50 i e the period spoken of as the cancer age.

In conclusion the author states (1) I believe chone cystic mestitus has a definite relationship to cancer of the breast and in many instances may be considered a precancerous condition (2) In cases suspicious as to malignancy a radical operation for cancer should be performed (3). In cases of chromic cystic mastitus that can neither chinically more pathology ally be drignosed as to malignancy the conservative amputation with removal of the plant bearing fisacias as the operation of choice

Von Haberer Removal of the Thymus, and Its Results (Thymusred Liton and hre Resultate) Il see med Il & \$ 0 3 I \$33 B) Z. traibl f d ges Ch Grenzgeb

In 295 cases of peration for gotter the thymus was removed nine times in five cases all women because the gotter stone dud not explain the great difficulty in breath ga and thereff re a tattus thymucus was suspected. There was dulle as over the manubin of the steratum 2 c see a shadow on the tontgen picture in cases distation of the heart and very rapid small pulse and in g cases considerable delay in the congulation tim f the blood The poot operative course was une entitle and the result thus far sait sfactory as the symptoms have d appeared and los the changes in the heart.

Four othe case of thy mectomy were performed

for very pronounced cases of Basedow's disease and in 3 of the cases a part of the gorter was re moved at the same time The post-operative course in these cases was as simple as after ordinary stru mectomy without even any temporary signs of heart dehrum The frequency of the pulse decreased almost immediately and all the rest of the symptoms as well The most noteworthy case however is that of a man reported at the surgical congress this year. He had had two unsuccessful operations on the thyroid and was in an almost dying condition from insufficiency of the heart A very small thomus was removed with almost immediate results now after ten months he can climb moun tains 2 500 meters high Microscopical examina tion in all o cases showed a persistent hyperplastic thymus

M Neil C The Association of Acutely Fatal III ness in Infants and Children with Abnormal Constitution: Status Lymphaticus Ed b M J to 4 m 25 B Surg Gynec & Obst

This author discusses from several points of view those mysterious cases of sudden death termed usually status is, mphaticus. The chinical features are instantaneous or almost instantaneous death of an individual in robust health in whom after death careful search fails to reveal evidences of disease. These cases fail into several groups (1) Infants found dead in bed overinght (2) older children succumbing during or shortly after anxious thesa (3) young adults dying suddenly during bathing. This paper concerns itself with the fragroup and with a sense of cases allede to them

The explanations of these deaths are made senentially under two headings [3] The mechanical theory of pressure by an enlarged thy mus on adjacent vist astructures (2) the non mechanical theory of an altered constitution of the body. The first is the older theory and though relegated to the back ground by Friedleben has had more retent advocates. The second theory a due to Paltaul who bear than the enlargement of the thymus and bear than the enlargement of the thymus and the beart and arrowing of the norts to be the pre-diposing factors actual death being due to sudden heart failure.

Of the ci nucal characteristics, the age incidence so dismontance in or cases collected by Sokolon 70 per cent were below one year Sex makes no difference everyte in older children and young adults whete mailes predomnate. The general appearance where mailes predomnate the general appearance Sometimes a party with the passimenties enlargement of superficial lymph node, and nekety tanks are seen

Among the puthological features an enlarged thymus is important although the actual size in any particular case has ceased to be of importance 462 with the decline of the pressure theory Microscopically hyperplasa is present in both cortex or medulia or in one alone Hassal's corpuscies are medium of in one atone 1122221 8 corpusates are usually enlarged and show some kind of degenera The weight of the thymus in health is of prime importance According to Dudgeon it weighs A to to sms in to 3 years then stationary and duning after puberty Hammar gives figures annumening after puperty riammar gives figures as high as 37 5 gms. The lymphoid tissue shows as nign as 37 5 gms ine lymphoid ussue shows overgrowth in areas where it is usually invisible to overgrowth in areas where it is usually invisible to the eye as in esophagus, stomach duodenium jejunum the greater part of the colon and especially at the base of the tongue Prominence of Peyer's patches, solitary follicles in the fleum and follicles of the spleen are notable marks of the condition or the spicen are divising makes of the constitution of the lymphoid tissue shows simple hyperplasa In older children the fibrous stroma is threkened The medulls of the adrenals according to Wiesel shows almost complete absence of chromaffin staming with bichromate salts. This supra maning anaming with mornimate saits. I me supra-frent hypoplasta is now a part of the pathology of status symphaticus and Viscel believes the sudden death to be an adrenal death. In the thyroid a chron c hyperplasia seems to be established. In the genial organs various degeneration changes have been noted Other changes found are narrow ing of the acrts or its branches hypoplasis of the heart horseshoe kidney double ureters over average length of skeleton free mesocolon etc Bartel who missts upon the significance of these widespread changes, has taught the doctrine that status lymphaires is only a part of a pathological condition

The new cases portrayed in this paper deal with which he calls status hypoplasticus two groups (1) 13 mants found d ad in bed (2) a group of older boys aged 10 to 16 years dy very short illness whose pathology resembled that

Those of the first group were from 25 days to 4 of the first group

months old and all were well nourished. Lleven were found dead in bed one died suddenly after a fit of coughing and the other died two hours after cyanosis appeared and dyspaces began

At post mortem examination 4 thymuses were At post mortem examination 4 tryminates were weighted 3 weighted 30 gms and one 51 gms others were noted as enlarged. In only a minority was enlargement of the lymph ussues noted cases are not strictly cases of status lymphaticus but statis thym cus could be applied to them lungs nearly always showed congestion often subpleural hamorrhages In 8 cases examined microscopically all showed niense congestion of the scopically all showed intense congestion of the fluid and cells into the alveoli etc in fact uges of bronchopneumoma In 27 cases of sudden death pronchopneumonia in 27 cases of sucuen destring in children Paltauf found capillary bronchitis, but ruled out all these from the category of lymphatic constitution. It is reasonable to assume in these constitution at is reasonable to assume in these cases called fulminant bronchopneumonia that an abnormal constitution of which status lymp is a part is a contributory factor in the sudden death a part to a containativity sociol in Great Britain cases. In certain industrial schools in Great Britain cases

of illness occurred divisible in 3 groups of para montas (1) rapidly fatal cases (2) irregular noa mouses (1) rapany ratas (2) stregular non fatal lobular in type (3) latent or abortive page monias In the fatal cases it was established that pneumonia was present that it was pneumococcal, and that the classical marks of status lymphoticus were present This led to the conclusion that these fulminant pneumonias owed their fatal character to this morbid constitution and that the irregular features of the non fatal cases were due to the same

The climical features of the two groups are similar In the infants found dead to hed the illness began during sleep Among the older children out of 22
fatal cases 2 deaths occurred in sleep of the other o 11 died in 24 hours and 0 within 48 hours Moreover the early character of the illness was often anormover the early character of the limes was outer trivial and assumed grave features only an bour or two before death Also the majority of the boys dying with fulminant pneumonias became ill during the night or early morning. In both groups the bathological features of confestion of the limits and parnongical scatters of congestion of status lymphat

Examination of the thyroid in the cases of ful cus parallel each other minant bronchopneumonia showed a marked hyper plasia in all specimens examined In 12 of the 13 cases of infants the thyroid showed evidences of of the fibrous stroma is very considerable and this unquestioned marked hyperplasis or the morous account in very communication and point seems to establish the fact that the abnormal points seems to establish the last that the apparatus before death, and this lends support to the theory of

Other infections as scarlet fever and diphtheria some morbid constitution have been described as fulminant, patients dying within a short time. Dant examined 11 such cases within a snort time train craimines it south is of diphthena all showing pronounced sides is should shall be should be should be should be should enlarged and the thyroid, examined by the thickening of the fibrous stroma. These facts seem to harmonize with the evidence found in the cases of fulminant pneumonias in institutions

# TRACHEA AND LUNGS

Crane A W X Ray Examination of the Lungs J Mich Si M Soc 19 4 Yun 20 Gyare & Obst

According to the author's conclusion the fluoroscope is superior to a single plate but a sterroscopic pair give diagnostic vision superior to say other method. Familiarity with the fluoreany other memon rammarily with the secre-scopical appearance of the lungs in health is necesscopical appearance of the lungs in neath is accessively the room must be absolutely dark and it is daytime the physician should first rest his eyes n darkness even fifteen minutes may be

The ult mate factors of a fluoroscopical examina insufficient for the best results tion are increased or decreased transparency and motion. The end result of rotagenography agree with the end result of the physical examination if the phenomena are correctly interpreted. The same factors which determine Y are shadons determine the character of the percussion note. The field of an ancelulation is alarger in some directions that of the Y ray. Affections of the bronchal tubes denneted by faction sounds are beyond the province of Y rays but the margin of possible error is wider for the stethoscope and when the agins are correctly elicited and interpreted the results of succultation must agree with those of rontgenography Rost groupping in stigle lispaction, therefore it is a part of the physical examination and not a method to suppliant it.

The author's methods of interpretation are sum marized in the following tables

#### LUNG AND PLEURAL SAC

Increased transparency

- General (1) Pneumothorax (2) Emphysema
   (3) Compensatory emphysema
  - 2 Local (1) Lmpty cavity (2) Pneumothorat
    (3) Bronchectaus
- Decreased Transparency
  r General (a) Light shadow (r) Generalized
  pleun y (2) Congestion of Jung (b) Dark
  shadow (r) Edems (2) Cirrhosis (c)
  Black shadow () Lifusion to apex (2)
  Total consolidation
- 2 Local (a) Light shadow (1) Infiltration (2) Threchend pleura (1) Unlectans (b) Bart shadow (1) Partial consolidation (2) Small filled cavities (3) Pieturitic erudates (4) Small tumors (2) Infarcts (2) Black shadow (1) Consolidation (2) Pieturitic erudates (3) Congresse (4) Lurge filled ab (5) Lurge tumors (5) Lurge filled ab (15) Crists (5) Lurge tumors (5) Lurge phydatid (15)

Motion

- I General Changes in density during respira
  - 2 Local Changes in form (1) Of half filled cavities (2) Line of thickened pleura (3) Liftusions

D aphragm

- Visibility 1 Increased (a) Inspiration (b)
  Emphysem ( ) I neumothorax
  2 Decreased (a) Lapiration (b) (Edem ( )
- ( ngestion of lower lube (d) Consolidation of lower lube () Th ckened pleura at base (f) I leuritie flusion or exudate (g) Limpyema

Positi n

- 3 Diff rence of the two sides.
  - Abscess []; When high (see above) (b)
  - 2 Ilat () When low (see also e)

- Irregular (a) Diaphragmatic hernia (b)
   Hepatic abscess beneath diaphragm
- 4 Difference between the two sides
  - Ordinary respiration General range r
     Restricted (a) Tuberculosis (b) I leurisy
     Exaggerated (a) Compenstaory emphyseme
  - 2 Torced Respuration (a) General range same as ordnast, respuration (b) Upper half restricted (c) Fumphy ema (b) Asthmat (c) Fleuny 2 Exaggerated (c) Compensatory emphy sema (c) Loner half r. Restricted (a) Tuberculous (b) Fleuny 2 Exaggerated (a) Compensatory emphysema (c) Datus R Books-

#### HEART AND VASCULAR SYSTEM

Legoraki M J: Influence on the Heart a Action
of Mech nical Injury of the Surface of the
Heart (iber die Becinf is geler lie tit gl. it
d rch mechan sche lerietur g is Obe fläch des
li rzep) R k h k St Petersb 1913 x
14 8 Bp & trabif d ges Ch : Creuc,eb

The author had a case in which the patient had fallen and stuck a needle in the breast at the edge of the sternum between the third and fourth ribs. The needle showed pendulum movements synchronous with the pulse. While the needle remained there was no heart of utbrance but as soon as it has removed the patient lost consciousness, the pulse disappeared the respurations stopped there was marked cyanous and convulsi a stracks beart resumed at a new part of the beart resumed its normal action. Beart needle were repeated several times but the patient finally recovered.

The author inst tuted a senes of experiments to determin the influence I superficial injuries of the heart on its action He found in the literature many cases r ported of se ere injury to the heart without any disturbance in its action and other cases in which the heart stopped on only al ght injury. His experiments were performed on four logs and one at which were anasthetized with morphine and ether cannulas inserted into the jugular and carotid and co ne ted with a Ludwig kymograph ficial resp ation was performed and the heart la d bare In two cases the pericardium was not opened n the other cases it was and the heart a surface was lightly scratched with a needle. In three cases there was immed stely a marked fill in blood pres ure and cessation of the h rt s action in two cases the in ury h d to be repe ted at eral times before the t tauct n stoppe ! The injury w s in all cases s superfi ial as pos ible nd in only o e case w a t u uccessful there being a light defect of the hartm «l

There was no bleed ng of suffment extent to demend consideration in the results so the author does not think the effect can be regarded as the result

with the decline of the pressure theory Microscopically hyperplaus is present in both cortex or medulin or in one alone liassal a corpuscies are usually enlarged and show some kind of degenera-The weight of the thymus in health is of prime importance. According to Dudgeon it weight 7 to 10 gms up to 2 years, then stationary and diminishing after puberty. Hammer gives figures as high as 37 5 gms. The lymphold tissue shows overgrowth in areas where it is usually invisible to the eye as in occophagus stomach duodenum jejunum the greater part of the colon and especially at the base of the tongue Prominence of Lever a patches solitary follicles in the ileum and follicles of the spicen are notable marks of the condition. Aftero-copically the lymphoid tissue shows simple hyperplasia. In older children the fibrous stroma is hyperplasia In older children the fibrous stroma is thickened The medulls of the adrenals, according to Wiesel shows almost complete absence of thromaff'n staining with bichromate salts. This supra renal hypophus is now a part of the pathology of status Ismobaticus and Wiesel believes the sudden death to be an adrenal death. In the thyroid a chronic hyperplas a seems to be established. In the genital organs various degeneration changes have been noted Other changes found are narrow ing of the aorta or its branches hypoplas a of the heart horseshoe kidney double ureters over average length of skeleton free mesocolon etc Bartel who in is upon the significance of these widespread changes has taught the doctrine that # f s lam phat can is only a part of a pathological condition which he calls at itus hypoplasticus

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Those of the first group were from as days to a months old and all were well nounshed. Eleven were found dead in hed one died suddenly after a fit of coughing and the other died two hours after og anovas appeared and dyspinera began

At post mortem examination 4 thymuses were weighed 3 weighed so gms and one 31 gms others were noted as enlarged in only a minor ty was enlurgement of the lymph tusues noted These cases are not strictly cases of stat lymph tiens but status thymicus could be applied to them The lungs nearly als ya showed congestion often sub pleural hemorrhages In 8 cases examined micro-acopically all showed intense congestion of the capillaries catarrh i the epithelium exudation of fluid and cells into the al coli etc in fact igns of bronchoppeumonia In 127 cases of sudden death in children I altauf found capillary bronchitis but ruled out all these from the category of lymphatic constitution It is reasonable to assume in these cases called fulminant bronchopneumonia that an abnormal constitution of which status lymphaticus is a part is a contributory factor in the sudden death In certain industrial schools in Great Britain cuses

of illness occurred divivible in 3 groups of peamonias (1) rapidly fatal cases (2) irregular and fatal lobular in type (1) latent or abortive purmonus. In the fatal cases it was established that pneumonia was pre-ent that it was promoconci, and that the closeled maria of seats irreplators were present. This led to the conclusion that these the present in the continuous and that the irreplate textures of the non fatal cases were due to the same duatherla.

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during alters 'honoit be obler ch lifers out of 2s
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curs startilled each, ther

Fx mination of the thyroid in the cases of the minant bronchopneumonia showed a marked type pla is in all spectrens exam ned. In 2 of the 17 cases of infant the thyroid showed endences of unquestioned marked hyperplasis. The thickney continued on the case of the case of

some me thad const tution

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the thickening I the fibry-gream. These ficit
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#### TRACHEA AND LUNGS

Grane, A W Ray Examination of the Lungs.

J Vich W H vic 9 4 mt, 10

By Surg Grace & Obst.

According to the author's conclusion the fluoriscope is pt. or (a single plate, but a stereocopic pt i pt. and a single plate, but a stereocopic pt i pt. and inguistic vision supernor to the fluoriscopic appears of the fluoriscopic pt. and the shouldity dark fluoriscopic pt. and the shouldity dark for the pt. and the shouldity dark frest hat eye in farka. The sufficient for the bit regular fluoriscopic pt. and the shouldity dark frest hat eye in farka.

The ult mate it to of a fluorescapical ev mination are increased or decreased transparency and

A preliminary gastrostoms through which the patient may gain nourishment and so improve the nutrition and power of resistance is an ad antage

Meyer W: Extrathoracic and Intrathoracic (Esophagoplasty in Connection with Resection of the Thoracic Portion of the Esophagus for Carcinoma J Am M Ass 9 4 lm 100

By Surg Cynec & Obst

Meyer reviews briefly the plastic measures designed to replace a resected section of the lower ersophagus lie regard the gastroplastic method of Jianu as the most promising method and prefers the extrathoracic subcutaneous transplantation of both the new formed tube and the oral end of the

resected ecsophagus

Bircher was a pioneer in the construction of a new orsophageal tube extending from the neck to the stomach infolding for this purpose the skin over the antenor aspect of the thorax Roux and Wullstein followed, forming an intrathoracic tube from a coil of upper jejunum detached from all normal connection save the mesenteric blood supply Vullet and Kelling similarily adapted for a new cesophagus an excluded segment of transverse colon

To obviate the multiple operations and dangers of strangulation to the transposed intestinal coil a number of operations have been recently devised utilizing the stomach for plastic material Von Fink turns unward the first portion of the duodenum and mobilized pylorus an operation particularly indicated where the cardiac end of the stomach be involved by neoplasm. Ach and others have proposed to mobilize the stomach and distal end of the ocsophagus particularly indicated when resection has been necessitated near the middle of the ersophagus and to either tran pose extra thoracically or to make an internal anastomosis with the free end of the upper ersophagus

Prior to Jianu Depage and Hirsch had molded into resophagus stomach wall from the lesser curvature and anterior aspect respectively. Mey er regards the procedure of Jianu as offering a longer more surely viable tube with minimal opera-

tive trauma

Juanu divides the gastrocolonic portion of the great omentum t a distance two mches from and parallel to the major curvature of the stomach The right inferior gastro-epiploic artery is divided but the left a carefully preserved. Next a tube is formed of the lower portion of the stomach by quiting the anterior to the posterior wall by a double row of mattress sutures beginning at the lower border two inches from the pylorus and following a line of plotted incision one and one half inches distant from nd parallel to the greater curresture. The mattress sutures continue well into the fundus f the stomach one to two inches past the reflection of the left inferior epiploic artery Incision is made between the row of sutures freeing a tube 8 to 25 cm long att ched by its

base to the fundus of the stomach and efficiently nourahed by the left inferior epiploic artery raw edges of the stomach and the tube are turned in by suture and the apex of the tube is drawn through a subcutaneous tunnel as high onto the anterior thoracic wall as it will reach here to be ultimately anastomosed with the mobilized end of the resonhagus \arrowing the stomach by a third does not interfere materially with function

Meyer regards the Jianu procedure less effective as a pure gastrostomy than the present standard methods since regargitation occurs along the widely patent tube probably from a continuance of normal penstalsis now occurring in an undesirable direction Those patients presenting infiltrating carcinoma behind the aortic arch with history of complete obstruction Meyer regard as not susceptible of

any save palhative surgery
While intrathoracic esophagoplasty when fur ther developed experimentally would seem the ideal operation yet if it is found that a transposed oral stump of the esophagus no matter how long re mains viable in the new position then need for development of intrathoracic asophagoplasty becomes less urgent and the external will remain the operation of choice following resection of any seg ment of the orsophagus for carcinoma

KARL CONNELL

Under E: Surgery of the Thoracic Part of the (Esophagus (2 r Chrurgie des Esophagus in Thorax) Berl kl lick sch 913 l 2000 Berl kl lick sch oz 1 2000 B Zentralbi f d ges Ch r u 1 Grenzeeb

In most cases of intrathoracic operations on the ocsophagus the left pleura is opened in transpleural procedures the right pleura also is often opened but with the aid of a differential pressure apparatus this complication may easily be avoided positive pressure apparatus only those can be con sidered that leave the mouth of the nationt free for further manipulations Negative as well as positive pressure apparatus have the disadvantage of disturbing the movements of the lungs and moving the esophagus with them This disadvantage is avoided by Meltzer Auer's insufflation Section of the vage cannot be avoided but to avoid shock they should be touched with 5 per cent cocaine Exten sive resection especially of the ribs in contact with the disphragm may cause marked disturbances of respiration Unger resects the seventh or eighth rib and preads the intercostal space or the next rib may be simply incised

If the tumor is located at the diaphragm an attempt should be made to unite the crophagus and stomach directly. If the wall of the crophagus is materially changed by dilatation or inflammatory processes the assophagus should be remo ed or drawn transversely through the pleural cavity and sutured to the skin

In tumors between the bufurcation and the diaphragm the tumor is removed the lower end allowed to mk down toward the stomach and the

of shock There was fluttering in the sentrole immediately after the injury followed by cessation of heart action while the auricles continued to act normally for some time Since it seems impossible from the nature of the syntation that the effect could be due to musy of the heart muscle the au thor's conclusion that it must have been due to damage of the nervous elements is in agreement with the conclusions of other authors. Also in agreement with others he concludes that certain areas of the heart a surface are especially sensitive to mjury e g (1) the anterior surface of the left ventricle in the region of the longitudinal sulcus and (2) the region below the auriculos entricular sulcus on the posterior surface of the left ventricle. VON HOLST

Pothernt Treatment of Wounds of the Heart (Sur lo trustement des places du cour) Bull et mém Soc de ch e d Pa 9 3 rexux 1960 B 1 journs de Christipe

Potherat described a case of penetration of the susteror surface of the left ventrale by a revisive bullet. There was no onface of exit and the bullet could not be found. The wound was sourced with catgut and the pencardum dramed. The patient duel the thretenth day of parulent pencardus. The author ruised the question whether the pencardus was to be attributed to the dramage or to infection, produced by the projectil itself or by bits of clothing carried in with.

LENDEMANT believes that wounds of the heart are more serious than statistics would lead us to believe becau there are no physical or functional eigns that enable them to be diagnosed at once The subjective igns have no value for they may be slight in very serious wounds and ric terss. The objects e igns have more value that of berropencardium for instance which shows that the heart is be ug compressed by blood but this may not be present if there is a sufficient opening into the pleurs t allow the blood to flow there. The best guide is the progress e increase in the general ymptoms especially circulatory disturbances. In doubtful tases explorators operation i necessary this con sists in simply following the course of the projectile uffice t opening is obtained enlarging it so that to treat the lesso In thoracotomy Lenormant recommends that the operatio be limited to re secting the fifth cartilage and rib to a length of 6 o 8 cm sectioning the fourth cartilage at its sternal end and by along the rib by bending it backward This gives an opening suff ciently large for suturing the heart wound a d makes a easier to spare the pleura th opening of which is u-cless to say the

In cases where there is no orifice of exit the bullet may be in the heart cavity or imbedded in the postenor wall. But there is another possibility it may strike the heart at a tangent ind especially in the region of the apex, open up a path through the wall that closes again leaving no Pening Sourceoux confirmed this last statemen by the description of a case of his own

ROSNIANT described a case of staly wound of the left ventricle which was sutured without damage of the percardium or pleura. The patient recovered with no complications except an assepte pleural efficient which was relieved by two punctures. The many properties of the properties of the contraction of the properties of the contraction of the contract of the proof to coninternal harmorrhage and from the great morths in the extent of the cardiac deliber.

Strazzaro believers from a case of his that death ly paleness with the absence of any considerable internal or external hemorrhage is a good sign of compression of the heart I Drawy

#### PHARYNX AND ESOPHAGUS

Lambert A. V. S.: Treatment of Diffuse Dilata tion of the Caophagua by Operation Description of a Hitherto Unpublished Rethod Reporof a Case Surg Gyn & Oliu 4 xviii : By Surg Gyne & Obs

Lambert divides diffuse dilatation of the crooph agus into three groups, depending on the shape of the ectasis (2) fusiform (2) pear-shaped, (3)

"Me "datage IV
"A "datage III to the first two varieties Lambert states that the opening into the stomach is the most dependent portion and that these sases may be crued to simple distatutes of the cardia while in the that variety there is reservoir or dead space lying to the right of the cardiac opening and on a lower lead it is in this last variety that some operative process.

dure is necessary for a cure

Th author reports a case of the se shaped dilastaton and describes an operation for its redd. This consists in drawing the dilated lower portion of the exceptings down into the pertonact earth through the widened evophaged opening. The stomach is then opened and a low champ is to planed a stomach of the opened and a low champ is to planed again through the ardiac opening. In the the other lader emails in the stomach When this clart is cloved it acts as an exophage parternile and include between 1 yas the cardiac opening of the exophages the dilated lower and of the exophages the district lower and of the exophage opening of the exophages the district lower and of the exophages and the company of the exophages and the exophage opening of the exophages the district lower and of the exophages are considered to the exophage and the exophage and the exophage are also as the exophage and the exophage are also as the exophage as the experience of the exophage and the exophage are required of exceptions and the experience of the exophage are required of exceptions and the experience of the exception and the

which require operati e interference u order to remain permanently cured

2. This group comprises those cases in which the opportunity has lengthened in addition to having

2 This group comprises those cares in which the oscophagus has lengthened in addition to having become dilated and in consequence has the form of an so haped curve

3 These ases may be successfully treated from within the abdomen without fear of infection to the pleure or mediastinum They have dissected a pelvis and illustrated the anatomical relationships at the femoral ring to show clearly Cooper's ligament Their technique is as follows:

The incision three to four inches long is made
as in inguinal hermotomy but prolonged nearer to
the nubis

2 The aponeuros s of the external oblique is divided in the direction of its fibers

3 The upper flap of the external oblique the conjouned internal oblique and transersalis and the round ligsment or spermatic cord are next retracted upwards and the lower flap of the external oblique downwards thus exposing Poupart's ligament. The transversalis fascia which is then in view: I divided and the edges retracted which ex-

poses the pentoneum and the neck of the sac

4 The pentoneum is opened at the neck of the
sac The contents of the sac are withdrawn and
allowed to re-enter the free pentoneal cavity. If
the intestine or omentum be strangulated cutting

Gimbernat a ligament relieves the constriction
5 A dressing forceps is introduced to the fundus
of the sac clamped and withdrawn everting the sac

of the sac clamped and withdrawn everting the sac and changing the femoral 1 to an inguinal herma the sac streated accordingly. If the sac be adherent to the thigh structures it does not evert easily and the incision is then prolonged down the thigh and the sac freed.

6 A deep chromic suture is passed through Cooper's ligament then through the lower flap of the tran versals fasca and the edge of Poupart's ligament a second and third are passed more internally the innermost picking up Gimbernat's I gament

7 The closure of layers is the same as in inguinal hermotomy

Kring 1 O A Case of Sol tary Rupture of the Mesentery (Uber enen I II solerier Mesen terrilabre a g. D seriai Berla 19 3

By Zentralbi f d ges Char Grengeb

A three year old boy was run over by a wagon both front and hind wheels passing o or his abdonner. There are diliness in the right side of the abdonner of the passing of the passing of the abdonner of the passing of

The author gr es some inf mation as to cen tu ions of the abidomen and especially as to the sol tars ruptures if the mesentery in soldiers caused by contission. The sit title soir 1850 to 1000 to 10

alone only three times and twice in conjunction with the intestine. Of these 141 cases 96 were operated upon the rest treated expectantly

Tron 1007 to 1010 the number of cases was of on of which were not operated upon as the symptoms of shock disappeared after a time and there were no signs of unjures to the viscera the remaining 86 cases were operated upon. There were solated najuruse of the meentery in only a cases all of which were mild and the outcome good—rescein of the intestine was not necessary. Of these 4 cases, I was caused by a lack from a horse i by a blow from the butt of a gun and i by a heavy fall on a horizontal bar the cau e of the other is unknown.

Of the 30 cases that died after operation 17 were injuries of the small intestine 7 of the liver 4 of the spleen 1 of the stomach and 1 was not reported

Trom 1896 to 1906 96 laparotomies were per formed for contusions of the abdomen of which 36 recovered and 60 dired. From 1907 to 1910 86 cases were operated on with 36 recoveries and 30 details.

The number of laparotomies for contusions of the abdomen has markedly increased and the recoveries now almost double the deaths due to the increase in the number of early operations

I RITZ LOEB

#### GASTRO-INTESTINAL TRACT

Lange S: Practical Value of Y Ray Examinations of the Stomach Ohio St M J 014 x 0
E S 13 Gynec & Obst.

Lange recounts the contention of Stiller that the xry bismuth stomach did not represent the true clinical stomach his contravers; with Groedel and the experiments of Groedel Weber and Yon Berg man proving that the Yry tomach though different from the previous conception of that organ is i fentical with the clinical stomach

An \ ray examination of the stomach must be complete to be of value and the usea f the average pat ent that a single plate made in a few moments will give detailed information of his condition is an

embarra ment to the work

The co dition of the pittent's ners one system as mifu nangle tonus cannot be disregarded Distortions due to give or faces in the colon must be recognized and eliminated Spasm of the pyl ru or the entire plone portion of the stomach simulating tumor is the chief disturbing factor in the cases which Lange has examined.

He makes the complete t mach examination in four parts

I The patient is given a small watery suspension of bi muth or barium during fluoroscopy the flect of palpation and change of positi n being noted

2 The stomach is then filled with bismuth or barium su pended in fermented milk an I the size shape position and peri talsi are studied fluoroscopically with palpation and changes of position plates being made at varying intervals

1 Castric clearance is determined by repeated fluoroscopy or radiography lither the single Rieder or double Hau lek carbobydrate meal may be used Fermented milk as a vehicle lengthens the time of clearance

4 For eastric motility and the finer details of peristal in the stomach is filled and a series of plates is made with the nation? prone Lange prefers to make plates at longer intervals

than is suggested by some observers

The flat gastric ulter is not directly recognizable by the X-ray method Peristalsis is ant to be deeper than normal There may be spasm of the pylorus and a six hour residue I deep construction of the greater curvature oppos to the ulcer may be seen Such constrictions, however may occur oppos to the scar of a healed or exceed ulcer or as a result of spasm from hysteria tabes, and intoxications

In callous and perforating ulcer the radiological and periorating user the seasongram
signs are more distinctive. Among there are (1)
Organic hour glass stomach (2) accessory pouch
(auschen symptom of Haudek) (3) deformity of the
antrum by an old pylotre uleer (4) increased per
stalsis and 1x hour residue with obstructing pylotic ulcer (s) very characteristic for fibrous obstruction at the pylorus is a greatly enlarged pars pylonica

with a much d stended pylone antrum and evidences of hypernenstals The X ray evidence of gastric cancer varies with the location and character of the growth A medul lary cancer of the cardiac portion I the stomach beginning in the greater or lesser curvature may be recognized comparatively early as a defect or de-form ty of the outlines of these parts. If on the anterior or posterior walls of the cardiac portion, it may escape recognition until it encrosches consider ably on the lumen Scierhas in this region may shrink and contract the contour Lither type may produce hour glass Medullary growths at the pyloru may cause filing lefects interruption of peristalis and delayed clearance with six hour residue Large medullary pylonic growths may result n a long narrow pylonic channel or the para pylorica may seem to be completely absent Seir thous growths in the pars pylorica result in lack of distention without gross tregulanties absence of peristalsis and rapid clearance through a pylorus held open by infiltration. If a palpable tumor mass be present its relation to the stomach may be deter mined by past ng wire on the tumor outline and then making the A ray examination

Diagnosis of gross lesions of the duodenum and rall passages may be made. The duodenal cap may be distorted by adhesions or obstructed by the scars of an old ulcer I arly there is hy perpensials with normal gastric contour and absence of the cap the lumen of the duodenum is greatly narrowed Adhesive processes in the upper right quadrant of the abdomen lend to I ft up the pylanus and pull it over to the right

ALBERT MILLER

Eusterman G B : Incidence and Diagnosis of Com-plicating Factors in Gastric and Dundensi Lesions Am J Gastro Externi 1914, 10, 1 1 By Surg Gynec, & Obst.

The material for the following study was obtained from cases operated on in the Mayo Clinic from 1006 to 1912 inclus ve and consists of 778 cases of duodenal ulcers 324 cases of gastric ulcers and 691 cases of gastric cancer From a careful study of the cases at hand the author comes to the following conclusions

Pylonic obstruction or stenosis of variable degree was present in an average of 30 per cent of all chronic ample ga tric and duodenal ulcers and in 54 per cent of all gastric cancers This condition occurs chiefly in eases in which the ulcer is a triated in or near the pylorus or in the first two mehes of the duodenum The diagnosis depends upon a history of vomiting and removal of retained food material from the stomach upon the demonstration after six hours on the rontgen plate of a residue of bismuth or barium sulphate administered in some suitable medium Apparent obstruction may be due to polorospasm Extragastric causes are usual is due to gall bladder disease complicated by perforation or adhesions and unplicating the pylone end of the stomach or duodenum

Perforation was a complicating factor in 18 per cent of 778 cases of duodenal ulcers, in 25 per cent of the ara cases of gastric ulcers and in 315 per cent of 601 cases of gastric cancer. The diagnosus is usually made on a history suggestive of ulcer occasionally of cancer associated with one or more attacks of acute epigastric pain although slow chronic perforation may occur without severe pain. The liagnosis of choicl thissis is often erroneously made in those cases in which there is an ea ly per formion without the association of sufficient gastric disturbances suggests e or characteristic of ulcer Perforating ulcer of the stomach is usually demon

strable on the röntgen pitte Hamorrhage in chronic a mple alcer of the stom ach or duodenum is a less frequent complication than is generally supposed Definite profuse melena or harmatemesu or both, was noted in 20 per cent of all duodenal and in 30 per cent of all wastne ulcers In a total of \$17 gastne and duodenal ulcers an average of 13 per cent gave evidence of gross bleed ug from the st much or bowel or both Conditions most likely to give rise to error an diagnosis are those cases of gall bladder or ap pendiceal ducase associated with gastric disturb-ances in which gastro intestinal hamorrhage-5 per cent and a per cent respect vely-of various

degrees may occur
The accepted symptom-complex of gastric ulcer is often the precursor of gastric cance association was defin to in 41 8 per cent and it regular in 18 7 per cent of all gastric cancers in this series Conservate ely un all cases of gastric can cer there is clinical evidence of a pre-existing ulcer in over 53 per cent In about 60 per cent of malig

nant tumors of the stomach there is pathological evidence of pre-existing ulcer. In numerous in stances when the climical history and gross appear ance of the lesion was that of a being peptic ulcer definite microscopical evidence of malignant hyper plastia of the mucosa of the borders only was shown Hour glass deformly occurred in 10 per cent of

tiour guass detormity occurred in 10 per cent of the gastine, one half per cent of the duodenal ulcers, and one per cent of the gastine cancers. The diagno sis was usually made at the operating table and was rarely made chinically until the fluoroscopical screen and rontgen plate came into routine use

Connectent or associated disease of the appendix 2 per cent or gall bladder 8 per cent requiring additional operative interference was present in 33 per cent of all cases of duodenal uters and in 15 per cent and 4 per cent respectively or in a total of so per cent of all the case of gastine uters of so per cent of all the case of gastine uters former group and once in the latter. The pancreas was untilly univeled when perforation was present

The presence or absence of metastases si of the greatest clinical import in the presence of proble gastne cancer. Even when metastass has already taken piace external evidence to often lacking that as the presence of palpable glands in the left supra-clavacular pace of an infiltrated navel free fluid in the abd men palpable modules on the anterior rectal shelf in the male or in the issues above and behind the uterus in the female. In this series of open cases of gastne cancer which came to operation metastasse had already taken place in 128 or 18 per cent.

Mayo W J Chronic Ulcers of the Stomach and Duodenum T Inter 4! S f A N N 9 4 April By Surg Gynec & Obst

In the first period from 1893 to 900 operation for pylone obstruction was applied only to pat ents with marked pylone narrowing bittle differentiation being made in the chronic cases between ulcers in the pylonic end of the stomach and in the duo denum. The results were excellent

The second period from 1900 to 1906 was marked by growth of knowledge resulting from surgical observation. During this period it was recognized observation. During this period it was recognized that obstruction was a terminal condition and study of the trouble was taken up with a view to the act let returnation of a malady which exposed the patient to senious dangers and more o less contain, disability, and distress. There was much aim disability, and distress. There was much supposed les ons which were not the result of citizal observations at the operating table but of an attain to be a supposed to the supposed t

In the third period from 1906 to 1914 there was improvement in d gnosis and development of better technique. The relation of the clinical symptoms to the lesion was shown in the light of operati e experience. Great aid was obtained from the resident as

Up to Dec 31 1013 1 841 cases of acute and chrome ulcers of the stomach and duodenum had been operated on (457 females 1,384 males) demon strating the early chimcal view of a preponderance of females over males to be in error Probably the large number of these supposed ulcers in women were the result of pylone spans due to gall stones were the result of pylone spans due to gall stones ulcers were located in the stomach in 1 205 in the duodenum Multiple ulcens occurred only in 4 or 5 per cent of the cases

3. The character of ulcers of the doudenum may differ in man, respects from ulcers of the stomach. They are usually found in the upper two inches of the doudenum and many times with no crater such as eusts in the stomach but rather a discolored much early not in the crater of which is a slit or dimple-like ulcer but with typical industrion in the perstoneal and muscular coats. Incomplete protected perforations are common. Definite the protected perforations are common. Definite charge of the charge of

Gastropeunostomy is the most generally success ful operation. Utcers should be evented when it is possible to do so without too much risk. Duodenal and gastine utcers obsirateling the pylorius yield equality good results following operation. The greater the distance of the gristine utcer from the pylorius the greater the strate of the gratine utcer from the pylorius the greater the mortality and the less certain the cuter. Muncley eight percent of the duodenal utcers and 95 per cent of the gastine utcers will be cured orgentally relieved by operation—the operation—the operation mortality of duodenal utcers being one and one half per cent the operative mortality of gastine utcers including acute perforations acute hemorrhages resections etc. 3 feb per cent.

Steinharter E. C Experimental Product on of Castric Ulcers by Intravenous Injection of Clumped Colon Bacilli Laset.Cl 9 4 1, 87

By S rg Gynec & Obst

After discussing the work done by other men on gastine ulcer the author describes the method he employed. The colon bacilit were clumped by using a one twistlih normal hydrochloric acid solution and a twenty four hour broth culture 2 composed by the colon of hydrochloric acid solutions and a twenty four hours brother and the colon of the col

The following is a typical protocol. A large white rabit njected w at 4 ccm died twenty two hours later and was examined immediately. The stomach showed two erosions at the pylonic ring the lining of the stomach was thickly covered with digested blood all other organs were negative.

The results show that gastric ulcers and hemor rhage erosions can be experimentally produced by intrastance injections of very small loses of clumps tolos breill ir from the the author reasons that there is probably a continual absorption of the colon organism and its form through the intestinal walf. Buring con upstion this absorption is increased an is the eliological fart in in the proluction of gastric telegration, in human beings for a pl. Cot fit.

Richter H M: Congenital Pyloric Stenous; a Study of Twenty I we Lases with Operation by the Author J in H is 2014 I; 2014 By Surg Cynes, 4 194

Ninetten of the cases reported by the author were of the hyertra plut type. I pylore stenois and the other three were of the spa mode; type in all the former a definite firm of we shaped tumor was demon trated at operation and in a chiten of them it was pulpated and reconnect before the abid minds well was operated. The received at read to the contract of the contract of the contract was no graduation between the timor mass and the adjace t stomach at I due lemm read to the contract which is not contract to the contract when the st mach is empired either by sometime or he is tule. The moreous of the pyloru was relatively redun hant in three cases it which it was refully observed. The his beyond the hyperflat is of the circular muscular fees with the partial as of the circular muscular fees with no chinge in an other structure of the pylor in

The stoma h when not emptuel held to operation was always found the function to a marked degree the functionament as always empty and cellipped. It was perfectly evile t that the turn of turned as on pil t obstruction to the canal in mose of the cases as there any accompanie malformation although in one a parturality short mescoul in made at timp seek to do a retrocal; get tre jumpostomy. In them, of the took of the case o

Ih onset I the trouble in most aven has been within the or thre works I burth it i muall al rupt with I tring up or miting a companied Imoni from the start with mirk I necipation I very or n with a tarti g to of a ght these sympt m have been unf rmfs progres t e nd the progress has a r been arrest d for more th to a fen b ure at a t m | There b been no I ten tion rigidity or other fatur uggesti e fa per it nitt. The lo er bikmen has a iformly been I und empty and pass by untracted the uppe al lomen bulging a 1 t la i g scross if upper abdomen from un le th left out il burtier toward the right extra nin nly ma ked personal c water have imays been a if hown if not pre-ent on examination they lid at 32 be induced by giving the 1 the 1 and or at r. They were so marked that they will read! be demonstrated to the audience in large amph theater I mally

in eighteen of the nuncteen cases the tumor could be readily prinated

It i particularly important that the fotgers my as a diagnostic near ure le intiled to determing the rate of emptying th tomach not if patoes; of the stownth The tumor causes a mechanical blocking of the pubrus and it is possible to pass a far mard sound through the penning at operation, but the blocking is comparable to that seen in the uncluse it is pre-trophage prostate gland. There fore, the exclusive a diagnosis of hypertrophage attention of the exclusive a diagnosis of hypertrophage through the exclusive and appropriate proceeds the uncluded the exclusive contraction of the exclusive

does not imply the disappearance of the time. There is nothing in the naive of hyperirephic at most that eventually predicates a permaent clouwr and the author know of no good reason sky these tumors should not ultimately disappear. They are not neoplaturs but sunple mercular hyperiroph is. The indication for operation is not strengthened by proving the permanency of the ma " The fact that it loes not disappear quadre enough in the eventual should indication for

ourgreal interfere cr

In this series of cases the mortality was 115 per cent. Of the 22 operations to sere typical positions gratico-relevosionise, with a death, a mortality if us per cet. A sult mucous polerist sty was done on a babies and on a do this will be 130 into Uf tie g death that occurred a was executally a result of the child's cond ton and express is an arriculated mortality that must per repress is an arriculated mortality that must per

a section amond clearly regarded as sure all new Tand of the cases were reliable sure all new Tand of the cases were reliable sure all new Tand of the cases were reliable sure all new to carried up traintent in feed of that was do approved as an acute fourt to train to Two cases had post specific every let necessitating report of the shadom new loped an acute referring to true to egit the cases of the shadom new loped an acute referring the true too either the cases when the case of the cases o

In patient are he g anishty or theel and the folds of the bright the result hown so I medit by the folds of the bright the result have no I medit be on the open and the ming will continue to the ming will continue to the ming will continue to the continu

Van Lenn p W. R. J Junoatomy Rabaces, Month 19 4 21 ; By burg typec & Obst.

Ti author report y fig. sinc cancer 18

Ti author report a f g stric cancer in which he performed rejunctions with gratifying results. In his experience he has found it preferable to posterior gastro enterostomy in malignant cases The cases which give sufficient healthy tissue for an anastomosis between the stomach and intestine usually permit of a gastrectomy while in the more extensive growths the condition of the patient is such as to make a quicker and simpler operation desirable. Bile and pancreatic juice have a free exit the food goes into a portion of healthy intestine where it is readily assimilated and therefore feeding can be forced and the patient built up With good technique leakage need not be feared and the attachment of the intestine to the abdominal wall appears to cause no trouble even though the case be one in which the fistula can be subsequently dispensed with which is not the case with gastros tomy where the attachment interferes with motility more or less

This operation is also indicated in those cases of beings ulcers which are too large to remove. In this way the stomach is put at rest and the ulcer given an opportunity to heal provided there is no obstruction. The author does not wish to behittle gastrostomy and gastro enterostomy but their limitations must be recognized and jejunostomy employed when the former are not indicated.

LDRAND L CORNELL

Dieteriche M. The Mechanism of Invagination of the Intestine (Über den Mechanismus der Drim gination) R sik I k St Peterab

9 3 493 By Ze traibl f d ges Chir u 1 Grenzgeb

Having had seven clinical cases on five of which he operated the author tool, up an extensi e experimental study of the mechanism of intestinal magnation. First he studied normal perstalasis and antipersistalists follows g Pruts and Ellingers experiments: Then 23 experiments were performed on rabbits a d dogs fo an in estigation of physio lorical mis amantion.

The invagination was produced by electrical or mechanical timulation. He observed that a piece of the intestine contracted spast c lly and generally the an I no contracted section formed an um brella like projection and the contracted portion was invaginated into it. In this way invaginations as much as a cm long occurred but were generally freed gan after ten minutes at the most believes this is explained by co traction of the circular musculatur of the intestine and that the further progress of the avagination i caused by the contract on of the circul r musculature not as othe authors claim by that f the longitudinal muscles When the latter contr ct the invaginatio is loosened b t since 1 aginations of different extent take place under the same degree of stimulation there must be nother facto in olved P n stals: can hardly be held responsible as it stops when nimal are a asthetized theref re he thinks the pendulum movement of the intestin The invagination is la ger or smaller according to whether the pendulum movement is in the direction of the invariantion of rice versa

In order to find out how a physiological invagination is transformed into a pathological one he tried to establish artificial invagination and keep the intestine in that position. This could be accomphased only by close button sutures or a continuous suture as the invagination was always freed again even coming out between the sutures when they were placed far apart The invagination remained only when the last loop of the small intestine was in vaginated into the cacum so that the valve of Bauhm formed the neck of the invagination prob ably because the continuity of the longitudinal musculature necessary for freeing the invagination was interrupted by the valve of Bauhin Special conditions are also necessary to prevent the freeing of an invagination. These conditions are created when the muscle elements of the intestine are injured functionally and weakened as the author proves by artificially induced enteritis

It has been claimed that an invagination once produced necessarily increases, but the author denies this emphatically as his experiments have proved the contrary and he comes to the con clusion that a physiological invagination is easily produced but that it becomes pathological only when certain conditions are fulfilled either the stimulation which produced the invagination must continue uninterruptedly or with only short in terruptions as is the case in tumors and diverticula of the intestinal wall and in foreign bodies parasites etc or the function of the intestinal musculature must be injured so that the balance between the action of the circular and longitudinal fibers is destroyed This is the case in ulcer hamorrhage in the intestinal wall-purpura hamorrhagica-and in functional distu bances from interication or infection lead poisoning enteritis from further experiments he concludes that for the production of a progressive pathological invagination both of these conditions must be fulfilled Voy Hotsr

Cope V Z. The Early Diagnosis and Treatment of Ruptured Intestine La / Lond 914 1 64 By S rg Gynec & Obst

When the intestine is ruptured as the result of a blow on or crush of the abdomen the symptoms can be considered as due to the uper-tent on of shock, the occurrence of pentonities or the presence of gas or fluid in the pentoned crusty. The symptoms in the order if their relative frequency are pain vomsting marked resilessness persistent superficial reparation and pain on deep breathing shock local te deriess rigidity distention added dullness rising pul e diminished liver dullness and occasional ly melena and emphysemy.

The majority of cases have to be lagnosed by the

ampions of periton its of rapid or delayed onset it is ften delayed after rupture of the intestine because the intestinal paresis caused by the injury inhibits pensials a and allows time for the exudation of plastic lymph which seals the opening. Tain when continuous and increasing in severity is the most reliable symptom and is demonstrated in four ways. I set the expression second pain at the site of the lesson third pain evoked by deep pressure over the site of the lesson to that in many cases the pel le perstoneum as felt by rectal extremation is tailed to be expression, as most of bloom material is absence of the liver bulliers as a symptom which cought never to be waited for

The author believes it advisable to open the abomen on the su poson of ruptured interture if the following conditions he present (1) Who severe abdominal pain presents for more than about six hours after an injury if the pain he accompanied by the companied by

The recognized treatment of runtured intestine operation and the best I isn is to suture if possible If the tea he too large for successful uture without narrowing the lumen of the bow I langerously a lateral and tumos may be done while in m my cases resection of the affected part is clarly re quired If the du sienoj junal junction be the part affected a ga to jejuno-tomy should be performed Th author beheves (s) that syngation with sal ne solution is inade; this in cases operated on carly but that with late cases the matter is not of much consequence and (2) that drainage t probably the safest plan. The author reports two cases both operated on about twenty hours after the injury both with rupture of the upper sejunum and with recusery I both D C BULTOUR

Zander P Critical Review of the Appendictit Cause for the last Three Years at the burgleat (Binke of the Uni eraity of Halles B. (Arnische Ro kuth ube the Appendic theilt de dri letten Jahren der hrungleiten Uni eratis kir k 11 h S) A h J M C G UNI 944 B) Zentrald i d ges Ch u i Grenneth

In the last three years got crees of acute appendic its err operated of the chine, so per cent in men and 44 per cent in wom in with a mortality of 70 per c at 1 The cause of full 1 ges perceitage was the preponderan e of last operation. As there was general pertinent in no 6 per rent cent con 1 months of the control of

inflammations of the appendix and in severe cases of the so-called interval period

The card nai principles in operation for appendicttis are (1) Parly operation quickness removal of the diseased focus as conservative an operation as nos thie and general treatment lingation and snonging are of equal value in the diffuse form loosening of fibrin deposits is rejected by the author as well as I ranke a rad cal operation Murobs a method consisting of quick operation opening the abdomen through a small griditon incision, remosal of the appendix thick drain in Douglas pouch small buttonh le incisions with thick draws, no irrigation, no sponging complete cloung of the abricominal wound except for the drain and Fowler's position seems to him the best because of its con servati e nature and quickness. Faster's position is the best for the d scharge of the pur. As for the interval operation it should be performed only for absolut economic or personal indications. Instead it is better to wait for anoth r attack and operate early IN PROPERTY

Bendi en P A., and Blything J D : Pneumatic Rupture of the Rowel Surg (ye & Ont 1914 Ev 73 By S g Gynec & Obst

The authors report a case occurring in their own practice of multiple rapture of the bowl result is from the application of the nozele of a h is presure air hose to the anus of the victim by a fellow work man and in addition give deta is I six other cases of a until reature hitherto impublished.

The Licerations of the bowd n this i trace were it in number of in the large and i in the small gut and it ar in the mesentery. In length they varied from a to 7 inches. Operation was I lowed by

received.

The post is emphasized by the authors are (i) That it is possibl and often necessary to make a diagnosus i this form of accident from the physical rid eggs lone the 1 atture of chief diagnosis where it is the properties of the diagnosis where it is the interest of the mal superse. Seeing the encommonly it is noted tympon the belowmen and (i) that this is type of ordistrial accident that i becoming quite frequent since the introduction of compressed art is modern shopp and this atter inecess is disher lakes it guard agrin it is occurrence as it as hope the properties of the contract of the properties of the

Rotter J surgical Treatment of Carcinoma of the Lolon / brurgschen Behandlung der koluncar come / trek f tl Cher g 1 55 By Lentralbi i d ges Cher L Grenzeb

The author reports the cases from the 10 to 101; ye of which were operated upon radically and 51 which could not be so operated upon either because the 1100 was so far ad need that it could not be complictly run wed or because the potentic came to the bospital utilizing from less ind died as the result of the operation for items. Rotter agrees with Aorte Petermann and Anchurk that theus present the operation should be limited to the creation of a fixed fastula must be seen attention as a fixed fastula may these patients are so weak that they can not stand any thing more but even the relatively simple procedure of making a fixed fastula gives in Rotter a statistics a morthalty of 44 per cent. Enterenationness in alless gives of poer cent and advancement and resection 70 per cent. However the results of the rot cal operation in cases where there was no letus were very estification of the 70 per cent the operation of the 70 per cent.

In all the tumors of the excum and secending colon the end of the iteum and the enture sectioning colon were removed and the iteum implanted end to-used or side to side into the transverse colon systemen operations of this kind gave a mortality of 17 per cent. The free end of the transverse colon was formerly closed by crushing ligation and mynamion recently by continuous siture and

nortanies zur In carcinomata at the middle of the transverse colon or below Mikulicz advancement was per formed in some cases and primary resection with circular suture in some Of 27 cases operated by Mikulicz method in two stages there was a mortality of 18 per cent while of 21 by circular suture 6 d ed Circular suture is absolutely contra indicated by much fat in the intestine an intest ne very much filled with faces impossibility of complete mobilization and suture without tension in it cases in which the transverse colon was united to the descending colon end to side or side to side there was a mortality of 10 per cent lleosigmoidostomy with exclusion of a segment of the intestine was per formed three tunes with good results in cases in which the ends of the intestine could not be sutured without tension

Terrell E. II The Radical Treatment of Hamor rholds under Local Anaesthesia I ter 1 J S rg 914 xxx By Surg Gynec & Obst

The author states that he is now performing most of his hemorrhoidal operations under local anisathenia. He uses no occure or a combination of the auth quintine and urea. Most of the patients are treated in the office and are enabled to continue their daily occupations.

The largest pile a brought down cleansed with an

The te hanque used is as I llows

antiseptic solution a d infiltrated with a solution contain into one per cent quinne and urre and about one tenth per cent noncaine. A clamp is appoint and fine lines linguistres placed in two or more cutoms depending upo the size of the tumor. The most important linguistres placed in the unpermost portion of the barmorrhoid for here the uppermost portion of the barmorrhoid for here the upper and the barmorrhoid for her the property of the permost portion of the permost per

is no undue bleeding and returned above the spinneters. The patient should be down for a few minutes and them may be allowed to go about his bissiness. Seldom do patients treated in this way complain of puin Occasionally there is a slight throbbing season for a few hours and some sortness but quinneand urea often retains its arresthetic effect for several lays and is sufficient to keep the patient comfortable if a proper technique has been carried out in lour or five days after the first harmorrhoud is removed another is treated in the result of the complex of the compl

The parts must be handled as gently as possible for post-operative pain is often due to unnecessary traumatism. Another factor in the production of pain after operations for hemorrhoid is that por tions of cutaneous tissue are included within the loop of the ligature. Foward L Correll.

#### LIVER, PANCREAS AND SPLEEN

Viénel E Large Tubercula Abscess of the Liver and Its Clin cal Dagnosis (Le gros abscés tuber culeux du lose et son diagnostic clinuq e) T sil 10 med 19 3 2 277 B) Journal de Charurg

Tubercular abscess of the liver is rare therefore it is not generally taken into consideration in the differential diagnosis of soft tumors of the liver. There are no special signs to distinguish it rom ordinary abscess of the liver except the absence of feverand its slow development. These would indicate it to some degree especially if there is no cosmophila, and if Wemberg's reaction is negative. These signs would exclude hydatid cyst as is illustrated by the following case.

A young man of 25 noticed a small tumor develop ing in the right hypochondrium and in a few weeks it had reached the size of a mindarin. It was pain less at first but later became sensitive and finally painful which led him to consult a physician On examination a tumor the size of a small orange was found under the anterior abdominal wall, absolutely immobile ps aful on pressure and showing no hydatid thrill It was round not nodulated and evidently intimately connected with the border of the liver Menel immed itely thought of hydatid cyst but there was no cosmophilia and Weinberg Parter's reaction was negati e Then the author discovered a s gn which has always aided him in the diagnosis of tubercular abscesses in the glands or eleewhere a feeling of peripheral induration with an irregular depression in the center Moreover the patient a facies was indicative of tuberculous and there were signs of local sed tuberculous at the right apex theref re, a diagnosis was made of tubercular abscess of the liver This diagnosis was confirmed on operation which showed pus that appeared tuber cular The pocket which was as large as a man s fist occupied the convex surface of the hver After being inplied out a large drain was left. The result was perfect. The dra n was removed on the n oth day and the pocket closed rapidly at the end of six weeks when the patient left the hospital only a small fistula remained which seemed to show a tendency to

close completely 1 cobra was moculated with some of the pus an I when killed three weeks later showed very distinct tubercular lesions

# SURGERY OF THE LATREMHIES

DISEASES OF THE BONES TOINTS MUSCLES TENDONS. CONDITIONS COMMONLY FOUND IN THE EXTREMITIES

Gallie W E. and Robertson D F: The Perios teum C ad 31 1 J, 1914 iv 13
By Surg Cynec & Obst.

The authors tell of a wires of experiments de-signed to test Maceuen's theory of the function of the periodeum. These consi te l of operations on animal in which the bones were denuded of perioden teum or enveloped in tip foil and other materials underneath the periosteum. In another series, the bones of young puppies were surrounded with metal rings or tin foil placed under the periosteum and after the animal had grown considerably the specimens were recovered. In a third series the bones w re injured by saw cuts or fractures and the results observed when the injured areas were surrounded with periosteum tin foil steel plates or wax. The conclusions arrived at were in agreement with Macerien's theory that periosteum acts merely as a limiting membrane and is not osteogenetic Osteogenesis appears to be solely a function of the en losteum. In relation to the making of bone eralts the absence of perosteum in small grafts produces no ill effect as the authors succeeded in ecting all of a series of grafts to take in pite of the complete removal of the periosteum in each case

Wagner G A Family Chondreds strophy Ftiol ogy sind Pathogenesis of Chondrodystrophy (Uber Iam hare Chondrodystrophe Re trag zer At logse nd i hogenese der (hondrodystrophic) Ark / Gy dk 10 3 7 Geburtah d Grenzgeb.

The author report a case of direct transmission of chondrody trophy from mother to chill For the past few years th influence of heredity and I m ily predi position n thi deau have become better known The tra smus-ton generally from lather to child only 11 cases from mother to child having been report ! If ret fore too much emphasis has been placed on the chinges in the skeleton the whole organi m especi ily the function of the rlands with internal secretion should be studied Recent necatigators gr that achondroplesia has nothing t to with nick to

The histological picture has a irregularity in the columns of c rtil ge ells which are pushed away from each other especially at the period and as if the period m had been det en into the cartilage. Whether t is primary abnormality of development in the cartilage a fortal chondrits or whither it is due to bacteria a not known. The author beheves that this disturbance in endochondral bone formation is associated with abnormally strong ten ion in the direction of the long axis of the bone by the hypertrophied muscles and that this causes

micromelia

It is not known how much the internal secretory glands have to do with chondrodystrophy but it is certain they have some influence Chondrodystrophy cannot be regreded as a premature osteogenesis caused by hyperthy roidson for an enlarged thyroid has never been demonstrated in connection with it and the symptoms are in direct contrast to those of Basedow s disease which is due to hyperthyroidism The author believes it is due to a hyperiunction of the reproductive glands. It is certain that byper function of these glands can cause abnormal development of the muscles and generalia. This general hyperfunction produces a disturbance resulting in endochondral growth of bone and micromeka the latter is increased by abnormally strong traction of the hypertrophied muscles Refrence Ca.

MuteL: Pathogenesi of Idiopathic Cysts of Bone and Swollen Cultus (Considérations a r la patho-génie des les testentiels des os et des c le so filés) Res d'erthet 1913

By Journal de Chrurere

Mutel endeavors to explain the pathogenesis of idiopathic bone es is. There is perhaps no more complex and confused question in bone pathology than that of nonpares tic cysts of the long bones Idiopath c costs must be distinguished from paras tic cysts caused by echinococci and cysticerci from the cyst of attenuated osteomy clitis, which are rather subpenosteal than intra-osseous and from the neoplastic pseudocysts due to the softening and nartial liquefaction of certa a neoplasms of the bone

Mutel concludes from his investigation that idiopathic costs I the bones and swollen callus are found especially in the young and at the juncture of the diaphy is and epiphysis. The diagnoss is difficult and yet of the greatest importance the disease with which it is most apt to be confused is sarroma All possible chrucal and radiographical data mu t be obta ped upy leme ted by an exam mation I th I mg t save if necessary in order to avoid a seriou and repurable mutilation. Bone cysts m y he are ted mpl by careful curettage by complet mmobilization or en puncture followed by medicin I injec sons

In regard to pathogenesis Mutel gives the follow ng conclusions Bone cysts and swollen callus do not show any signs of new growth to explain their origin There is generally a history of traumatism which may have acted on a bone already diseased or on a healthy one If it occurs to a bone already affected with fibrous osteites it hastens its local development and causes a deviation in the form of a cyst, or if it is applied to a healthy bone it produces more or less extensive attrition, but the reparative processes are deficient The traumatism may involve a region of the bone that is supplied by terminal arteries because of the absence of a collateral circulation a brunsed fragment i bathed in blood it is liquefied and the blood as it cannot be absorbed becomes encysted Or an accidental cause may exaggerate the phenomena of absorption which are combined with those of apposition in all repair of bone this cause may be a defective immobilization the lack of immobilization or a too vigorous massage

However ingenious Mutels hypothesis may be it seems to depend too exclusively on the idea of trauma and does not sufficiently explain the dys trophic or inflammatory condition which is the origin of all so called idiopathic bone cysts

ALBERT MOUCHET

Haller: Osteomyelitis of the Astragalus (Ostéomyélite de l stragale) C g d F s fra ç de h
Pa g 3 Oct By Journal de Chrurge

Haller reports a case of primary osteomyelitis of the astragulus which is a rare disease as only five cases have been published. The author has been told of two other unpublished cases which makes a total of eight cases one case in a man the rest in Streptococci and staphylococcus aureus were demonstrated in two of the cases necrosis is frequent. In secondary osteomyelitis the lesions are peripheral instead of being central as in the case under discussion there are no special symp toms although tuberculosis is generally suspected and operation is the only mean of climinating this Radiography is the only means of supposition Operation should be performed as diagnosis quickly as possible—drainage and somet mes astra galectomy J DUMONT

Fitzwilliams D C L Syphilitic Affections of Bones in Childhood Ci J 9 4 1 33
By Surg Gynec & Obst

The terms congo ital and hereditary applied to plais is monomer, as all forms of syphishs are acquired either before or iffer birth. The different manifestitions in the young and a the adult are due to 1 ff rence in resustance and to structure of the tiess. Seperally of the bones. The affection called ayph line pulphysius a better described in the properties of the prop

the muscular attachments there cause pain on mo tion. The relative frequency of location is in the following order humerus radius and ulna femur tibia and fibula. It may occur in the perichondrium of the laryngeal cartilage and prove fatal. The patients are practically always less than six months

In syphil tic dactylitis, which is rare there is thickening around the joints of the fingers and thumb especially the proumal side as shown by rontgenogram there is no pain and the bones do not break down and discharge. It is rarely seen in

children over three years of age. Penositis may be local or general. The patient is usually over four years old. The local form is commonest on the anterior thins and probably starts with traums. The node of new bone is night of the starts with traums. The node of new bone is night of the starts with traums. The node of new bone is not be tender but not painful. There is a diffuse or generalized form in which the penositis involves the entire shaft. The bones are not very tender but there is vague pain especially at light. This is the form in which occurs the interior saber I be bowing of the tithat dustings shed from rachitic the shaft of the sha

side of the emphysical plate
Syphilitic osteomychits is a gummatous mani
festation of the disease. The entire thickness of
the bone is involved. The bone increases in size
by formation of new bone externally while destruction goes on inside. It may resemble sarrooma
but is not as well circumscribed as that erowth

Boorstein S W Syphilis of Bones and Joints with a Report of Ten Cases Surg G<sub>3</sub> ec & Ob t g 4 xvm 46 By Surg Gynec & Obst

W A CLARK

Spontaneous fractures occur

The states gives a short feature of the facts known up to recent date of the pathology symptoms radiographical findings diagnoss, and treatment of this condition. He urges the importance of this condition. He urges the importance in one of the condition of the control of the

t Bone lessons of hereditary syph b take the form of esteochondrits with gelatinous masses under the periosteum with frequent necrosis while in late hered tary syphilis there is the cortical thickening with calcareous deposits beneath the periosteum.

2 Acquired syphilis shows the same findings as late hereditary (a) there are bone gummat and the periosteum is markedly thickened (b) hereditary j int les ons take the form of exudative arthriti

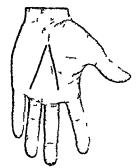


Fig : (Ficqué) Incisions t open a phlegmon of the palm

3 Acquired apphilite joint lesions are rarely found in the secondary stage when present they give rise to hidrops. In the termary stage the bonds and joints are niveled and so either the sproval form is present or the bones present marked hyperrottons. The author reports two cases illustrating acquired apphilite. Joint honey changes in the radiograms modulum mainly the pendsetum are present.

#### Picqué R : Surgical Treatment of Infections of the Paim of the Hand (Tratme t Chruntand des micritons de la paume de la mau) J de chr 1913 21 409 By Surg Gynce & Obst

There are fen surgical conditions shich require a more extens a knowledge of anatomy and fixer application of deductions drawn therefore than the surgical consistency of the pains of the hand People by means of good illustrations and clear text discussed the anatomical considerations or negard to the synousil shirable the abnormal communications of these sheaths and the deep cellular tissue of the pains in their bearing on the ascending course of infections. The important relationship of the tendon sheaths to the structures of the pains the wrist and the forearm are desembed after which the author tells of his operatic extensions a following the structures of the pains the system tells of his operatic exchanger which is as follows. First it is necessary to differentiate a simple

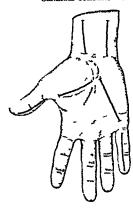
First it is necessary to differentiate a same phlegmon of the palm ie dorsal swelling per dexion of the fingers from an affection of the tendon sheaths intense pa n cl w hand from fixed flexion. high fever. The phlegmon of the palm demands that the deep layers be opened this the author accomplishes by the same incraion he uses to expose the deep palmar arch This incision runs from the top of the V of the hand to the second interdicatal space exposing the flexor tendons of the four fingers. The incision is carried down to the super ficial palmar fascia which is in turn incised from below upward on a grooved director The termina tion of the cubital artery is cut between ligatures full exposure of the second interspace being made the flexor tendons being left untouched phlegmon has its start from near the annular lies ment a supplementary palmar incision is made beginning at the flexure fold below the wrist and running along the hypothenar eminence external to the flexor tendon of the fifth finger Drainage is applied to the deep layers of the palm the tendom being easily avoided

The suppurative palmar synowits is concaved of as having three stages (r) Digital synowits (g) palmar synowits (g) philograph of the foreign These conditions may exist in any stage and frequently the first is rapidly followed by the second and third To illustrate this technique the surhor cities an imagnaty case as follows:

cities are imaginary tesser is studies. A prick on the pattern is stitle finger was followed by a welling and pain fixation of the fiscer followed by the finger and pain fixation of the fiscer followed by the pattern of the first pain of the pattern of the first pain of the first pain of the pattern of th

By exected manupulation and palgotten an estimite of the degree of involvement is formed if pressure at the external border of the hypothems emunence causes a wave to pass towns the their plane as internal parlmar incision in the same of the stitle finger from the summet of the V of the h od to within x cm of the root of the little finger is midcited. The muscle is drawn to the mner and a said the domestic through the same of the concited the muscle is drawn to the mner and a said the consistent opened. The day are in a wound of the wound.

If smalar ages of pus are present in the forestra an uternal anabrachai incusion is made partilel to the bone munchately outside the vessels upon the convexity of the fiscor tendon the incision extends upwards 6 cm from the inferon fold of the wrist. The middle compartme t of the infected tendon sheath is opened with a blunt instrument after drawing the fiscor incidon's outward and expossily the sheath deep under them and towards the capital the infection says he insured to their regions however (1 it streads to the radial sheath in trego is opened in a midst manner that the region of the sheath of the regions however (1 it streads to the tradial sheath is region a powerful in midst manner that the control of the sheath of the control of the control of the sheath of the control of the sheath of the control of the sheath of the control of the control



Fg : (Proqué) Incision to open a suppurative pal mar synovitis

short flexor of the thumb is cut through in order to reach the synonial sheath. The thenar branches of the median zerie are spared unless the incision attacks the annula ligament.

After thus thoroughly opening the sheaths, suitable drainage must be provided to The author condemns pulling drains under the annual ligament Usually the uncosons described suffice but if the 1 fection diffuses toward the cellular space in the foreram or I wards the wast) point section of the annuals ligament should be don at once because the carpial chain is not distinct relation for the wrist point and us modern the critical point and us modern trained to the forestment of the control of the co

If the 1 fection still spreads up the forearm the two lateral incisions are extended upward as far as necessary and trans erse subtendinous drainage provided for

If there is a suppurative arthritis of the wrist joint one or two supplementary dorsal incisions are made after the technique of D Olher or Kocher and the joi t drained by drains

The uthor closes his article with a brief review

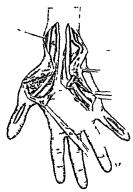


Fig 3 (Picquii) Complete open g by section of the an ular bigament.

of a typical case occurring in his practice and a discussion of the advantages of his technique over that of Lecene ELLIS FISCHEL

Oberst A Focal Tuberculosis of the Bones of the Estremities with Special Reference to Its Metaphyseal Location (De herdformage T ber kulose de grosse Estrem iste kanche mit besonderer Berück schigung de metaphysatran Lokalisation) Deutsch Zirch f Chr. 9 3 ccv. 43 By Zentzalb I de ges Chr. 10 Grengeb

In the treatment of bone and 10 nt tuberculosis the former customary extensive operations have lost ground in favor of more conservative methods and at present heliotherapy is receiving a great deal of attention A close examination of bone and joint tuberculous shows that the disease generally original nates a the metaphysis which accords with the fascicular arrangement of the blood vessels in this region of the bone Modern rontgen diagnosis makes it possible to find this focus early before there has been any great dissemination of the tuber culoses It can be distinguished from a focus due to chro ic osteomyehtis. In such cases there should be no besitation in removing the discused focus at once n order to prevent its extending and particularly ts breaki g through into the neighbor ing joint - hehotherapy will hasten the ultimate PECOL CTY

In disease of the hip joint the infection generally comes from a focus in the metaphysis of the femur more rarely from one in the ep physis or in the upper articular surface. In the Luce joint foci in the metaphyses of the tibia and femur are most frequent while the ankle joint may become diseased from a focus in the metaphysis of the tibia or fibula. In calcaneus, there may be foct in the body the tuber osity of the anterior process. In the shoulder foint primary foci in the metaphysis of the humerus are less frequent than primary synovial tuberculosis. The elbow joint is frequently infected from the metaphysis of the humerus or ulus, and in these cases it may be observed that as age increases the primary focus has a tendency to approach the joint and the olecranon As the humerus and ulna are both supplied by the deep humeral artery there are generally two primary foci in these two locations In the wrist ment tuberculoses generally begins in the metaphy sis of the radius

Hammond Heliotherapy of Rollier as an Adjunct in the Treatment of Bone Disease Am J Orth S g 1913 x, 260 By Surg Gynec & Obst

The method of Rollier in Sn tzerland is the ex posure to the direct rays of the sun not only of the pone sinuses especially tubercular ones but the entire body of the patient. He begins by short exposures to accustom the skin to the best tays and gradually increases the exposure to seven hours a day It is contended that high altitude 1200 to 1500 meters is necessary for good results. Out of 450 closed cases of surgical tuberculous 303 were cured 41 improved 11 remained stationary 5 died Of 200 open cases 137 were cuted 29 m proved 14 remained stationary 20 died The author treated 60 cases at a sea level hospital in Rhode Island by heliotherapy and noted decidedly better results over the previous year as shown by average wright hamoglobin percentages and intangible clinical signs W A CLARK

Segale C. The Regeneration of the Synorial Membrane and the Joint Capsul (fibre de Regeneration der Synon allambaran und der Geleni, kapsel) Bent H. Clur 1913 invent, 59 By Zentrabil 1 d grs. Gr. v Grenzgeb

Segale points out that the specials piece among connect e tissue formations. His expendant piece among connect e tissue formations. His expendant piece may regard to the requestration of symon all membrane and joint capsule show that an injury of the espaine heads and craticates from the pencapsular connective tissue while wounds of the ynoval membrane heads and craticates from the edge of the sound. The regenerative process closes on the fifteenth day requestion from the edge of the sound Fiberause them the spored him formation and the spored him formation of the spored him formation of the spored him formation of the spored him formation to that of the spored is a suitary passes. The blood which is poured in the joint ca tile to the spored of the spore of the

Buildey K: Pneumocaccic Arthritis den Suy Phila 19 4 in 71 By Surg Grace & Ohn An extensive report is given of 172 cases collected from the literature to which the author has added

one case coming under his our observation. The average irrequency of measurecore arithms is one in eight hundred cases of piecenons it is more common, in infarcy than it any other period of hile males are more frequently affected that for males. An attenuated view or partial immunity of the host lisvors the occurrence of an arithmic males. Traums and previous joint disease play as it is portant relie in the causation. Severally per cert of all cases are associated with preumons about of all cases are associated with preumons about of all cases are associated with preumons about burg leson the most common dark previous joint the previous previo

the pneumona

The portal of entry of the pneumonic infection
is usually from the nuccous membranes of the structures connected with the mouth nose or pharyox
The path of infection is usually the blood strain

Seventy five per cent of the cases analyzed were monarticular twenty five per cent polyaticular. The large joints, a the large and shoulder were more frequently affected than the smaller ones the lower extremity more frequently uncovered than the upper In none of the cases analyzed was there as milection of the accommodaterular joint or the

vertebral column
The exudate arise in character from a serous to a scrolibrandus or serostagimons fluid to the some commonly found thick, creany greenish pas. A large majority of parameteric constitution are support two in character. The principle of the some the property for the property of the some comparishment of the bones comparis the point symptoms differ but little from those of any other spitic arithmis. Severe toxicities usually as companies the process but it may be of such be grade and those as to closely resemble a tubercious or genorrhead joint. In 45 per cent of the case complications other than pretunous were present, emporation and the process but it may be of such be grade until the process but it may be of such loss genorrhead joint. In 45 per cent of the case complications other than pretunous were present, emporation and bacteriological explicit and septiment and the proporatory assuration and bacteriological examina.

tion by smears cultures and animal inoculation. A pneumococcic arthritis must be differentiated from their acute supportative point or all tions, tuber calous arthritis gonorrheeal arthritis, syphilatic arthritis and acute rheumance arthritis. The progress is better arthritis and acute rheumance arthritis.

older patient but the outlook is bany gave in this series there was mortality of 12 per c nt in the monarthritis c was and 73 per cent i poly architest and a severage in tailou varie of about to per cent. The prognous as to joint function was passed of the treatment of the third of the passed of the treatment of the down, resection or amputate in as the conduction may resection or amputat in as the conduction may require hap r toon will uff or non an appurative cases only except as a diagnostic procedure autogenous vaccines and immune sera may also be of service R B Cortero

Rosennu E C: Relation of and the Lesions Produced by the Various Forms of Streptococci with Special Reference to Arthritis. III os JI J 9 4 xx 1 By Surg Gynec & Obst

The author ductures the transmutation of pneumococcu and steptococcu with the various leasons produced by them an intermediate forms Streptococcus winding which he has contended more a pneumococcus by animal passage is considered as intermediate between streptococcus hemolyticus and the pneumococcus Likewise it is possible for buctenologist to distinguish p eumococcus from streptococcus the former has also been transformed into the latter and the attern so produced have all the characteristics recognised as belongang to them

A hemolytic streptococcus stolated from the tonuls of a scale fever case as made to produce arbitus repeatedly with bactera found in the small blood-vesch around the joint then encotoses atrophy and necross of cartifage. From these a streptococcus vundans was produced which had no affinity, for joints but did produce a typical endocrathis with hemorphages into the values. The same organism was further changed into a pincu mococcus, producing in the rof the above lesions

but a rapidly fatal pneumococcernia

Tom fourteen out of suteen cases of acute thematic fore organ ms closely resembl mg those destrobed by Payne and Poynt a were solated from the Jonds in flour of seven from the blood and in two cases from the stoods. Injection into samuals to cases from the stoods. Injection into samuals peatedly 4.1 as certain atage of virulence there is a marked affinity for the muscles with a resulting mostits of virying grades further passage causes complete loss of this characteristic. One type resembling micrococcus hermatician caused only a simple endocarditis and arbitists. The three types will be considered to the content of the other.

One strain of pneumococcus which had been isolated eight y is previously by Neuf ld had been kept virulent and described by Cole as one having fixed properties was converted into a treptococcus which instead of producing death by pneumococcemia produced arthrits and in one case holocystiti He how streptococci having a marked aff mty for tomach mucosa product g gastric nd duodenal ulcers in abbits, dogs and monkeys th ulcers being found 1 the lesso s as early as tw nty four hours and as late as one month fter ntravenous jection From fou indurated gastric and duodenal ulcers but few organi ms were obtai d pri c pally st phylococci treptococc were found one tain of whi h showed marked finity for stomach mucous membra e of dogs and r bbit C 1 STONE

Billings, F : Clinical Aspect and Medical Management of Arthritis Deformans. Ill so : M J out XV 14 By Surr Gynec & Obst

Billings considers arthritis deformans or rheu mated arthritis to be primarily of infectious origin and as shown by Rosenow Payne and Poyaton is susually due to some form of streptococci. Since the different forms of streptococci are produced possibly by conductons in the tissues it is rational to believe that in different people different strains may be grown which cause either endocarditis acute arthritis chronic arthritis etc. as the case may be

There is much confusion in anatomical classifica Various anatomical changes may be found in the same case most likely due to the three differ ent sources of the blood supplies of the joint struc tures hence the varieties of pathology in chronic joint disease. He believes the muscular atrophy and contracture is due to a chronic myositis in stead of from nervous influence or as a secondary thing Sometimes muscles are affected without in volvement of the joints as in the biceps or erector spine Histological examination of these muscles shows chronic myositis Cultures sometimes yield coccal forms of organisms The secondary cause of the trouble is probably faulty metabolism man ifested by general debility etc with a protracted illness possibly due to mismanagement in treatment and too much medication There are however some changes which are not understood where a number of bones have become fused into one mass

For the above reasons the author thinks arthritis deformans a chincal entity which is caused by a chronic focal infect on generally in the nose throat or mouth rarely chewhere The streptococci found are capable of mutation This clinical entity may be differentiated from other chronic arithritides by thorough examinations.

The first examination of the patient probably shows arthritis deformans instead of some other chronic joint trouble. This settled the next sten is to discover the source if possible and remove it If there have been frequent attacks of tonnihtis and the tonsils look abnormal Bilings aduses ther removal even if no other focus is found he thinks it is well to remove them anyway tissue should be used to make cultures and to ob tain autogenous vaccines which are used to give the nationt injections. He thinks tock vaccines and phylacogen are useless Vaccines should be con sidered the least important part of the treatment liter removal of the apparent cause an effort should be made to impro e the personal hygiene general nutrition hervous balance variety of food sun hine etc then passive and later active motion Deformities should be corrected by op-ration if necessary. An attempt was made by the author to use a prepared horse serum but in a few cases anaphylaxis became so alarming that further at tempt were given up Even in those cases where a cure is not possible the writer thinks the course of the disease can be checked. The most difficult thing to be overcome is the chronic muscular change even here however autogenous vaccines obtained from local cultures promise better results. The case demands long an learful natiohise.

CA STONE

Gillette A J: The Importance of Orthopedic Treatment in Tuberculous Joints, Rused upon Twenty live hears Experience in Four Thou and I en Cases J Las ! tot start 4 By S rg Gync & Obst

Cillette reviews his experience in the treatment of 4 010 cases of joint tuberculous and tates that tuberculin has been of Ittle or no value in the diagnosis or treatment of these cases and that the ray also had been of hitle value. In some cases where the \ ray ind cated apparently only a small focus of infection it was I un I on operation that the discase was much more extensive and not amenable to operative treatment. In fact operat in except the occas onal aspiration of abscesses is very sel dom advisable in the treatment of any of these cases In a series of cases which could be carefully analyzed the author reports 80 per cent of cures By cure is meant there was no evidence of any active disease no apparent d formity a good functional lumb Many of the rems ning 20 per cent died of some other disease than tubercul sis The author states that he has never seen a bony ankylosis in an uncomplicated tuberculous soint G ORGE I BATMAN

Is II The Treatment of Tuberculosis of the hnre-Joint; and It Results (ther do B hand 1 g d r Tuberk lose des hangel ks und ihre 1 riolge) B w E n Ch 1013 km 3 st By Zentzibli d ges Ch L Currugeb

I'l reports 454 cases of tuberculosis of the Lines treated the cally by barre in Breslau and Bonn with expectal reference to the comparative results from operati e and reaservative treatment over two fifths of the cases or urred during the first ten pe rs of hie in MARD six cases there was h reditary t int while 40 4 fer ent were of sympostic organ The treatment was not routine but was individu alize I taking into account the age and ocial position of the patient as well as the of sective findings.
Operation was performed only where there were foct in the bone that could be seen in the zonigen picture where the process wa advanced and com plicated by abscesses and fistule or had kil to severe contr ture- and sublu strons in all other cases conservative treatm at was attempted rest injection of wil I rm tokerine and heliotherapy Bier's hypermuna a no longer used and good re sults were obtained from rontgen treatment in only a few cases

Of the 33 cases treated conservat vely after subtracting those still under treatment and those who had been d smissed less than a year reports acre obta ned from 86 31 2 per cent of whom showed good results 45 3 per cent bad and there were to deaths Of 317 cases operated upon arrheromy was performed in 15 cases Of the four reported of two bad moderately good results, one was reserted later and one died later impetation was per formed in 32 cases 17 of which were reported ten of them are sell with stumps capable of beaung their weight four still have fittile and pan and there lied of ministry pulmontry and hidney tuber

culosis Resertion was performed in 168 cases 114 of whom were under 15 years of age. The immediate results showed \$7.73 per cent recoveries \$ 50 per cent improvements o 74 per cent not cared (recur rence) 3 73 per cent amputated afterwards 2 24 per cent deaths - that is 93 3 per cent good and 67 per cent bud results 1 rma ent results over a year after the operation ware reported in 189 cases 14 of whom died If we subtract from the remaind r cases which showed a abortoning of o er 5 cm there are still 83 6 per cent of excellent results (Abnig 75 per cent) I'ven in children with severe changes in the bones abscesses, fistula and poor general condition conservative resection is in heate ! Logorgraphese

Syring Treatment | Tuberculosis of the J into of the Foot and fix Results (Uber d Beh nding de Tuberk love des Jeu gelen and hue Ed ige |

Bub bl Ch 9 3 intx 1 88 |

By Zuttgibl d ger Chu u. | Grennyb

The author's work is a supplement to Gart's report at the 19 1 Congress and gr as a statical account of Gart's a maternal at 1 Journal per Brokat and Bonn in the preal field of tuberculous of the foot. His special object is 1 show the results of treatment Of the 212 cases 65 per cent exceeding the 1rst two decades of life one 81th showed in the 1rst two decades of life one 81th showed needlary is an and 40 per cent had other tuber culsar affections. The proportion I ossess to a powal tuberculous was shout two to one Technation trees affected and the contract of the co

Children showed a tendency to contractures which led to club foot while dults howed more of a tendency to flat foot which ca sed in taken diagnoses in to par cent of the cases. Mistaken diagnoses may be avoided by repeated runtgen examin tions.

Consern it treatment repe ted nyctions of solid rim glyc. In and plaster casts in conjunction with geat all its timent brine baths and soft sorp muscusion and but the say where possible had to be git up in 4 sec. Superhead with the good results 17 per cent of the case. The hose cases important and only those abouth be set, ted in which one or at most them.

should be set ted n which one or it must the
joi is are t led and wh c hiefly the capsule is
affected, without large foci in the bone. The ma-

jointy of the cases of foot tuberculosis that came to the clinic were not suited for conservative treat ment Excochleation and wedge resection were indicated in only a few of the cases Therefore the typical resection was preferred and was made use of in As per cent of all the cases treated, and in 53

per cent of the operative cases In tuberculosis of the anterior part of the foot even when only one bone the cuboid was involved transverse resection was performed with Lonig's bilateral incision which leaves the least deformity and offers the best chances of removing the diseased focus without opening it. The tendons do not need to be shortened for they adapt themselves to the altered condition. In the treatment of the upper ankle joint arthrectomy was never performed but the cartilage was always removed, frequently with

a part of the bone

Recently Garre has preferred almost exclusively the total removal of the astragalus with superficial resection of the os calcis with Kong and Bruns The removal of the astragalus is the only procedure that gives a sufficient view of the field and it does not give any worse functional results than wedge shaped resection moreover in onethird of the cases the articulation between the astragalus and t bia was also in olved. The short ening caused by the removal of the astragalus is compensated for during the years of growth by placing the os calcis in an oblique position which the author explains as being analogous to Nikola done s treatment of flat foot by increasing the func tion of the muscles of the sole which is accomplished by bringing the points of insertion nearer and by

atrophy of the antagonistic peroneal muscles
In adults, the os calcis is left in position and it
almost always results in flat foot In a few cases on later examination a functionating new joint was found but generally a firm anky losis is the best that can be done as walking is made casier by increased mobility of Chopart's and Lisfranc's joint Slight mobility generally causes pain from deformity Of 75 cases of resection of the articulation between the astragalus and the tibia examined later 40 showed good results and some showed remarkable func tion I capacity In the first two decades of life the proportion of successful to unsuccessful cases is 75 to 25 m adult life it is 53 to 47 Foot tuberculosis in youth s th hief field for resection Amoutation had to be performed in 45 cases 30 of which were soon able t return to their work STEVERS

#### Robinson W Torn Semil par Cartilages B 1 MJ 941 33 By Surg Gynec & Obst.

There can be a tea without displaceme t according to the author but no displacement without a tear a dhe thinks that the term torn should displace dislocation n peaking of this condition the frequincy of which he accounts for on natom cal ground The outer convex border of the internal sem lunar cartilage is attached to the capsule of the jot t rather firmly in the po terior

half but loosely in the anterior half The quadriceps extensor send slips down on each side of the patella to be inserted into the capsule of the joint When a strong contraction of the quadriceps occurs it pulls on these lateral slips of insertion and in doing so tends to pull the anterior half of the internal semi lunar cartilage out in such a position that it can be caught between the condyle of the femur and the

head of the tibia When the knee is bent and the leg rotated out nard or the thigh inwards the capsule being loose the anterior half of the cartilage is obliquely stretched across the articular surfaces immediately in front of those parts of the internal condyle and the head of the tibia which are in close contact Should a sudden extension occur the cartilage is nipped and as extension continues the capsule is forcibly pulled outward by the contraction of the quadriceps and as the cartilage cannot follow a rent in its substance occurs. As a general rule, the author says that if the femur has been rotated in wards or the leg outwards the inner meniscus will almost always be found torn. If the rotation of the femur is outwards, or the leg inwards one cannot be so certain that it will be the outer meniscus which will be found ruptured

The treatment he says is operation. One point in the technique is that the sutures in the capsule are made interrupted wide apart to allow of the escape of synovial fluid and so prevent subscouent distrition of the joint - no splint is used. He reports 24 cases 22 internal semiluna and 2 exter M S HENDERSON

nal cartilages

#### FRACTURES AND DISLOCATIONS

Peckham Mechanical Treatment of Some Fractures. Am J Orik S g 9 3 x 50
By Surg Gynec & Obst

There is now beginning a reaction against the en treatment of fractures which is the outgrowth of many cases of sepsis and some fatalities in plating Future treatment will be along purely mechanical lines and mecha ical ingenuity will be more freely displayed by surgeons

The author reports ten cases of fracture of the lower end of the humerus and of both bones of the leg all but one of which were treated without operation For con enience in applying casts on the leg he uses a small Bradford i ame with a w ndlass by means of which extension is obtained rontgen ray should be freely used in case of fracture not only for diagnostic purposes but after reduction to insure proof f results. A portable apparatus with storage battery is recommended for cases which for any reason cannot be removed to a rontgen laboratory

Magruder E. P The Treatment of Fractures. Am J S g 4 xx 111, 1 By Surg Gymec & Oh t

Under the above title Magruder gives the con clusions which he has reached as a result of a large experance in the treatment of fracture by both methods of treatment. At the outset he states that in his opinion the closed fracture in cases in which it can be properly kept as such always unites more quickly than the closed fracture healed by the open method. He cites operative trains and the open method. He cites operative trains and the production of the cites of the company of the company

The ideal treatment of fractures is the closed method when by it reduction can be maintained 2 Next is the open method of reduction without the introduction of a foreign body when by this method reduction can be maintained

3 Open method with the use of the least possible amount of foreign material

Indirations for operation in a closed fracture are
(1) When complete reduction is impossible (2)
interposed soft parts (3) spinal fractures with
separation (4) when apposition cannot be maintained (3) multiple fractures (6) rotation of frag
ments (7) mayrs to blood vessels and nerves and

(8) marked deformity

The advantages of the open method are (2)

Better umon (2) rehel from pressure on nerves

(3) anatomical reduction (4) remo al of interposed

ular fractures

Magruder advises the earliest possible operation
with a thorough washing away of blood clots. He
recommends the following treatment of compound

fractures

1 If there is extensi e comminution of the bone
and irrepa able damage to blood vessels and nerves,
immediate inputation is ad used.

When amputation is not indicated after the wound is dis-niccted, the fragments hould be replaced and the wound healed as a closed fracture a t tetanic serum should be given if indicated

The author ad ocates the use of a tuned steeled annealed wir as the most trustworths suture material and further he condemns the use of plates a d clamps because they are cumbersome of unnecessary size and weight. Insport Con-

Lasowakuja S. Th. Trentment of Ununited Practures and Pseudarthroses with Injections of Perfortum Emularthroses (Car. Rehandle g. schi konsol direter Instituten und Pseudarthrosen mit Index den p. Propten (alon) CA arch

 mur I fracture of the leg z pseudarthness of the hace jount after resection F Pape of personsem were taken from the anterior surface of the tiban and cut up into bits 1 to 1/8 mm in sure which were washed up physiological salt solution and injected between the code of the bone afterward the sin was untired and a Pieter cast applied. The subbeman surfaced and a Pieter cast applied. The subbenation of the property of the property of the asset with the constitution of the surface several months I now case of predathrons of the several months I now case of predathrons of the the Line joint of such cases of predathrons of the the paper of the predathrons foci of necroic as Julicocoopselly during the second operation, isture of the pseudarthrons foci of necroic as the patient was very cachecia from tuberclass.

Colvin, A R Fractures of the Tibla and Fibula at the Ankie-Joint Sug Gyme & Oist 1914, It is 99 By S rg Gynec & Obst

Lessons occurring at the lower ends of the blus and fibula are very varied in character requiring the radiograph usually for differentiation and a guide to treatment. Fort a original description of the fracture which bears has name was that of a fracture of the fibula above the inferior thou fibular out and a rupture of the internal letteral [ament

The agent of the subject on mental agencies to the subject on mental manufacture in the attent sense, is a rare man, it reads to the action of the subject on the subject of the subject o

Potts fracture must be put up in inversion, to approximate the torn structures at the inner side of the foot during healing

Young Recurrent Antenor Dislocation of the Shoulder Am J Orth Surg 9 3 21 43 By Surg Gynet & Obst

Some I the causes of recu rent autents dulocations of the shoulder re [1]. I large incremion of the capsule on the asternor sade (2) a lar condition of the capsul reporer (1) fractize of the more reference of the capsuler of the capsuler

The author prefers to davide the lower portions of the macrimon of the pectorals major and of the last smus dors muscles put the arm an extension for two weeks and thus produce a lengthening of these tendons so that the muveles cannot through contraction of their lower portions produce the dislocation. In muscular persons it is difficult to dis do both tendons through one intridor. The cission is made over the space between the delited and pectoralis major exposing the bicipital groove the cephal c'eun is of justiced such as produced up on a book and the lower portions divided,

Thomas T T Habitual or Recurrent Dialoca tion of th Shoulder Eighteen Shoulders Operated on in Sixteen Patients a New Axil lary Operation S g Gy c & Obsl 10 4 x m 107

The reported results of capsulorrhaphy are almost unformly favorable In 12 of the 18 houlders operated on an incusion anterior to the azullary test's assemployed in there was posterior azullary incusion one has ing been operated on by both methods. The anterior azullary operation is preferred to those previously employed but the posterior azullary operation to the anterior because it is safer more easily and quickly performed no must be a proposed to the posterior of the proposed to the posterior of the posterior azullary operation to the anterior because it is safer more easily and quickly performed no must be proposed to the posterior and proposed to the posterior and proposed to the posterior proposed to the posterior proposed to the pro

In 5 of the 18 cases dislocation occurred after operation in a fafer two operations. This case was probably incurable by capsulorrhaphy because of a large defect in the humeral head and because the patient had powerful epileptic convultions. In anothe epileptic the anterior half of the glenoid cavity h d been worn away but permission had not been obtained to do more than a capsulorrhapy.

In a second operation the glenoid c p was reshaped and the capsule contracted (Hildebrand) and no further dislocations he e occurred after two a d one half years. The first operation was known at the time to be medicient. In the third of thece c cases during hea? I weight wrestling which had been undisiged in for two years and while it was in abduction and dislocated the shoulder three years fire operation. He had had no further dislocations a year later.

In the fourth case in the first nine months after operation—4 years ago—there occurred from severe violence o two occasions a sublustation with immediate pontained red ction. The pattent has used the rm's gorously since in a winming tennis a d baseball playing but has had no further dislocation.

In the fifth case a complete dislocation occurred from severe violence seven months after operation but in six months—gorous use of the arm a nee he has had no further dislocations.

All the patients have been advised to use the arm after operation as freely as the other Of the 13 cases in which no dislocation has occurred since operation some are athletes and 3 are epileptics one of the latter having had more than 65 con

valsions since the operation

A dislocation after operation necessitates a new
laceration of the capsule the eccatrical contraction
of which pre-ents a second recurrence after operation in most cases. In one case there was no dislocation but a year and a half after operation—
more than four years ago—when there was nearly
full motion and power of the arm there occurred a
tear fracture of the glenoid margin from vigorous
boung a sinus developed and finally the head of the
humerus was excised which was the operation of
choice before consulor/happin.

Of the 18 operations, therefore it may be said that 16 were successful I partially successful and I a failure but even in the latter case the patient is no worse than he would have been without the operation

Sherman H M Congenital D slocation of the Hip a Rational Method of Treatment Sug Gynec & Obst 9 4 x 1,6 By Surg Gynec & Obst

The author describes briefly the common major deformities of the joint components found in the cond tion complex of congenital dislocation. These are incompetencies in all the anatomical parts which interfere with or wholly present the fitting of the bones to each other after a reposition. Among these antetorsion of the upper end of the femur 1 em phasized by which is meant a twisting forward of the neck and head and backward of the trochanter so that when the toes point forward the neck and head also point forward. This antetorsion can be recognized by taking two radiograms, one with the toes pointing forward when the head and neck show foreshortened and the other with the leg rotated in. so that the toes por t t the opposite foot when the head and neck show in profile and their ability to enter and remain in proper rel tion to the acetabu lum can b est mated. The persistence of this antetorsion untreated is the gre test cause of reluxa pointed out that the cansule a d its constriction at the upper part of the cetabulum is the m jor obstacl to reposition and that this onstriction alway present except in a very small number of the cases

The method of treatm at contemplates a reduction of the delocation by an inciss in this incission has between the long h and of the retrus femoris and the tensor vaguas femors and so avo ds cutting any vitaneous r muscular nerves it enters the capsule just beneath these muscles a d the gloved finger can then enter the capsule also B) fixing the joint the capsule is relaxed and the finger can direct a long straight probe point d finite to and through the constitution. The capsule must be cut in a direct thon downwards enough to open a space through

which the femoral head can pass Reduction is then usually easy

The limb must then be extended and abducted at the hip and also rotated in especially if the ante torsion is present

In closing the wound, the capsule is not sutured. The child is put in a double plaster of Paris spica and Lept there for from four to six weeks At the end of that time the splint is removed and if there is an antetorsion of the shalt a nail is driven into the trochanter and then subcutaneous esteotomy is done below the nail in the upper part of the shaft Hith the nail the smaller fragment is held in proper correlation to the acetabulum and the larger frag ment is rotated out so that the toes again point forward. The patient is once more put into a plaster of Paris spica the nail remains in place from four to six weeks and is then removed. The long pica is replaced by a shorter one walking beginning about three months after the osteotomy with the leg still in the spl at

With this technique of reduction through an incision which really reduces and osteotomy when it is necessary to fit the component parts of the joint to each other the nationts have a full 100 per cent of their chances for a practical joint. It is not possi ble to recreate bony deficiencies nor to perfectly fit together wholls mismatched parts but with a practical acetabulum and a practical head and neck the method should give a practically normal joint A joint is a mechanical contrivance and the test of its mechanical competence is its functional competence A joint which has a functional competence equal to that of a normal joint is itself a normal toint. In many instances the radiogram may show variations in shape size and other details from the generally accepted form but if the function is equal to that of a normal joint t is claimed that it is a normal youst This treatment has go en 703 per cent of functionally normal joints

#### SURGERY OF THE BONES, JOINTS, ETC.

Van Duyn E S Deductions from Our Experience at the Hospital of the Good Shepherd in the Open Treatment of Fractures As J S g 1914 xx m 8 By Surg Gynet & Obst

The author believes that assess is the keynotic to success and he emphasizes particularly the increasity of trained assistants. Attention is directed to the freest importance of interposed soft parts as a cause of insulatily to reduce fraction the parts as a cause of insulatily to reduce fraction when the contract of the parts are caused of insulative to the parts are caused from the parts of the parts of

The author summarizes as follows. We hold that the open treatment of f actures is more scientific and gives better results than the older method in those cases where complete reduction caputo be immediately accomplished and maintained that the dangers of the open method of treatment he only in faulty technique that excepting where it is necessary to hodge a gap, foreign meteral other than sutures should not be broken and frozen then sutures should not be made to the when such foreign material is necessary to the patient himself is the best that all cases should be examined at regular intervals with the XI of determine the amount and certent of callus formation and when failure in such formation is manifest in spite of early manipulations atrain pressure, and massage known therapeutic and mechanical means to induce local hyperemia and promote bony deposits, should be employed Ismosa Care

Moorhead J J: Transition Treatment of the Shaft of the Fentur Dislocation of the Elbow with Compound Fracture of the Foreum Med Fort girly 1914 xiv 33 By Surg Grace & Obst.

A case of femoral neck fracture as a woman of 50 was treated by Whitmans a beluction plater space was treated by Whitmans a beluction plater space and free motion of the one mach a slight long and free motion of the one of the other space and free motion of the

The method of procedure required of American thesas one-shill not meason, a hole diable by a hanker drail a steed drail through too the should be a sound to stand the steed of the should be should be sound a cord stracked to each end from which as public and the same manner as ordinarily. The protest is put to be do on a noticed spine and a weight of eight pound in attacked the weight being increased eradually up to fitteen puts.

The author claims that with this method them is much less diagner of indiction than in plating, and it takes few instruments thus permitting performance in the home. He admits that there is secondaril of lateral deformity but thinks this is more than compressive of in the last frequent thortourge and the secondarily of the last frequent thortourge is the secondarily of the lateral deformity but thinks this is more withdrawn easily. The case of clowe disposition was reduced under annexishetic but on attempting the placement of the accompanying forearm fracture he met with failure. On the eighth day the radius of the secondarily of th

Spiegel N Accidents in hall Extension (Zufille bei \agelevirasion) Di seriasion Berlin pij By Zentralbl f d ges Chir Grengeb

The author discusses with interests g statistical the following subjects. The extension method Bardenbeuer adhene e plast r extension nail extension, over correction pain and paulesanets, swelling of the points grown signon, antisylosis breaking off the nail flower up of the nail cut ting through of the bone incorrect application of the nail necroses of the lan and bedsores, damper

of unfection long duration of nail extension forms into no fishtla too long time required for recovery races of temperature. He discusses 18 of 20 cases, in which Stemmans method of nail extension was used. Of the 18 cases 14 were fractures of the lower extremity in 4 there was congenital dislocation of the hip 11 of them were male 7 female the ages ranged from 9 to 63 years.

In one case a man of 45 years which is described in detail the nall extension treatment of a fracture of the upper femur resulted in several accidents. Dusates severe pain later lisocation geau valgum position breaking off of the naul Decause of the possibility of over correction the nail extension treatment needs to be opicals. The practitioner may make a simple of the position of the competition of the control such as diplacement of the fragments need with many unpleasant surprises on this account such as diplacement of the fragments account such as diplacement of the fragments redema du turbances of the circulation and strophy. The patients react very differently as regards pain honever very severe pain to unusual swelling of the joint during and after and extension is not usual. From the fact that Lonek Liner resulted to the control of the position of the positi

Adal, loss also occurs rather frequently. In the author's cases this fasted a considerable time and was apporent on the later examinations. In a considerable time for fractures of the lower extremity movements of the joint especially the later joint cannot be earing out during traction or if so only with the greatest difficulty. In four of the author's cases there was stiffness of the joint. Steamann a treatment is not superior to adhese a plaster extended point on the former analysis states place in the extended position in the latter in the freed position. But it must be acknowledged that the analysises following nail extension are more amenable to mechanotherapy than those following

There i frequently ankylous of the foot joint also for in fractures of the low r femur the cal cancus is generally used as the point of insertion for the na! The author has had the nail break off three times and in a fourth case it could be seen from the rôntegn picture that if traction had been continued any longer it would have broken off. Among some of the most important disadvantages

adhesive plaster extension

Among some on the most important classylantages of the various forms of apparatus the author men of the various of the various of the various of the tendency of the tendency

follow—pressure from the nail may injure the skin frequently resulting in necross. In the author's 18 cases there were 8 cases of hedsore. The ulcer offers great danger of infection the long duration the the traction is also a further disadvantage—in the author's cases the average was 19 days the time ranging from 8 to 3 t days.

So far there is no known way of avoiding the danger of infection in had actension. Firstline are frequent occurring in 5 out of 18 cases. In a o year-old gail nail extension was undertaken for a viciously healed fracture of the upper feminary control of the firstly at the up of the information for more than 2 years. The average duration of the hospital treatment was 77 days maping from 23 to 746. Most of the cases were severe tractures. In 8 cases there was a pie in temperature Farr Loen.

Nové-Josserand Rendu A and Michel P: Four Cases of Codivilla a Nail Expension in the Treat ment of Fracture of the Fenure in Children (Delexten ion par le clou de Codivilla d'alea fra trea du fenur che i af t quatre observation) Res d'arlabs 1913 v 437

By J umai de Chrung

The authors report very satisfactory functional results obtained by extension with Codivilla a nail in four cases of fracture of the femur with great displacement of the fragments. They admit that traction on the soft parts properly applied and carrier of the fragment of the fragment of the four maintain that traction applied directly to the bone gives more exact results than that applied to the soft parts, because all the force used is applied directly to the reduction of the fracture. By this method much heavier weight of the used than a simple traction, and the authors have used 44 &g without propuls of the fraction of the fraction of the fraction of the fracture and the supplied of the property of the fraction of the fracture.

In two children aged 6 the nail cut the calcaneus but reduction of the fracture was secured. It seems to us however that it would be preferable to avoid injuring the bone by us a lighter weights. The perforation of the bone by the nail does not have any immediate or remote harmful effects the method is sample and does not demand a great degree of attention.

The authors have modified Codvidla a precedure They make use of his method of traction by a nail drivers into the calcaness. This allows continuous extension over a pulley of 8 kg of weight or more but they have provided for counterextension by a not of plastic breeches making use of the peris and sound thigh as in an ambidatory apparatus for cozalgas. When the plastic is day the child Is put in a bod formashed with a ringd from the star cozalgar in the control of th

rough the intermediary of the plaster apparatus, a force applied is distributed over all the points hereq ph the latter so that it is mucy more 5

wered by the latter so man it is maken more fineacours and much better supported.

The suthers conclude that Codwilla's method. and sourcers conclude that Convints a method, modified in this way is accilent for children and is nounce in this way is accused for conform and is not at all dangerous or senous They emphasize the dangers for children and adolescents who have

one unangers for concurren and appresents who nave not jet hunbed their growth of Steinmann a meth od which drives the sail into the perphent see nest of the epiphase The articular cardiage is one to the epiphase the properation of the properation of the manufact and responsible output may be done to the properation of the prope

the future growth of the bone Brickner W. M. Meral Bone-Plating, a Pactor in Non-Union Autopia dt. Bone-Grafting to Partie Q treasments in Non Union of Fractures Partie Q treasments in Non Union of Fractures By Sure Gynes & Ches

Bricknes cites two cases of non union following the use of home plates in fractures of the female He remo ed the plates and introduced an osteo

tie reme en ine maies and intrinsuced an orace Personeal graft from the 1 big over the site from Spenoteal graft from the 1 big over the graft which the plates had been removed. The graft which the plates had been removed. The grant which the plates had been removed "The grant which the plates had been removed the grant with the plates had been removed the grant with the plates had been removed to the grant with the plates had been removed to the grant and the plates had been removed to the plates had been also been al was being a biace by auturning over a both cases. He

microvors are of itself cause dela ed naion and non unon conclusions are

The use of m (a) pi to and screws is not ad Asseq in any oben obecasion in spirer a mile seque visci in any open operation in a hich a niple reduc-tion or reduction (the application of an auto-plastic freeh bone splint K aft a outdoor an auto-company of the application of the control of the c

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fusion of the bone graft with the femur and affords maion of the none graft with the femous and motion of the

Albee F II Th Inlay Book-Grait as a Treatment of Uncertainty Report of Service Street Control of Uncertainty Report of Service graft steeli

After a study | 205 bone transplants of arying After a study 1 205 poor transplants of asymptotic that Lane plates that Lane plates character the author concludes that Lane places and other intern I metal splants as then applied to amounted fractures of I ng standing are a bindrane and another than the standard standard fractures of I ng standing are bindranes. values in security of a security bon months of the security bon months and antage in security bon months and causer coast so an aurage, n securing you, motor allower believes that the indications lot treatment in

store senses that the markations for iterations to fresher the there makes and minimize the court final fractures are country final for the fractures temporary final for the first temporary final NUMERON AND SECRETARY TO IN UTE MORE 38 The Office Secretary only is necessary to n ure most as the oriented for accurate mineral is active and in the presence of accurate NUMEROUS IS SECUY AND A DIE PRESENCE OF ACCUSTION OF A DIE AND PARE AND PAR

suitabl cases intinto an activity dim aution of use find aution of use osteogenetic activity in the indications are fixed and stimulated in of osteogenesis on the part of the form of th of the fragments and a osteogenetic scalloid on the transformer again and further requirements and further

the bone graft not only stimulates callus but grows pone on its own second, the plate (attaches put ounce on its own account the part turns one of these requirements namely fixation ne of these requirements namely fixation In their crases Alber applied the following tech

under may 100 bet cent good teauft

The iractured area is exposed freshened with chisel or 53% chisel plug a removed from the medul

If there is overriding traction - pulley and lars e nai

organs—as uncer 5. The perioriteum is divided over the bone to be 3 Lee persenteum is unvited over the bone to be removed in making the guiter for insert.

6 The parallel saw cuts three eighths of an inch. neights — is used

6 Two parallel saw cuts three engiths of an use, and a spart are made long-tuninally of the frequent and completely and through the cortex frequent and the means the standal by the frequent and the saw should be incompletely and the saw should be saw should be

rengta in each Hagment and the saw should be constantly hathed in a saline solution 7. Holes should be drilled in the cortex on either

The opposite tima is exposed

The opposite tima as adjusted as before bone
thath the train saw adjusted as before antero one are made to the marton along the auteo side of the gutter

Buty a parios esteologi et small motor internal tilnal spect

saw the grait is dislosted

11 Augusto tendon is placed in the dril holes
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previously Studie levated from the bottom of the
previously Studie levated from the bottom of the san the graft is dislodged

previous) minus severes non no notion or no succession and the grift inserted under the tendon shirth a now pulled tight men is now paused right.
The bone graft being living tissue has certain sine usine grant, sreams strains consequently it is mediately becomes adherent and facel to the conmediately becomes adherent and facel to the con-

necuster) neconies annerent son meet or the total shich it a contacted to increased esteograms but ALUCH IT & CONTRECES ON THE OAL! BUT STAGE

For old supracondylar inscures besided with the memory permanent figures in permanent figures in the subor has developed an observed which have been approximately the supracond the sup larer in permanent frames the author has derived to extend the samplest extension of the larer it consists of the removal of sender. the same at commune of the femur of such shop

then a left on the lower tragment which by that a top is left on the lower fragment which by lock a go is left on the lower fragment backs and lock ag on the upper fragment provides backs and deplacement. He tryouts there exacts to tracted deplacement of the provides of the provid in April the leastle accepture to CCY cubincement the rebotts times cases so ter-

McN. History C. A. The Perneturant in Bone Francisco C. A. The Context of Con

The assertion made by Murphy that contact w th facing pone spent felt necessary for 1p access of 1ps accessed for 1ps acc

bone grafts and that the periosteum is of secondary importance is challenged by the author and ten experiments on dogs are cited to substantiate his The periosteum is of importance as it affects the blood supply and not wholly because of its esteogenetic function Forty-eight per cent of the grafts without periosteum succeeded probably because the blood supply was sufficient to Leep them aine Good rontgenograms illustrate the report of his experiments, all of which tend to show that contact with living bone is unnecessary to the life of the graft that grafts with periosteum practically always live that grafts without periosteum are uncertain that periosteum alone transplanted into soft tissue may produce new bone and that blood supply is the essential factor in determining the fate of the grafts W A CLARK

Perimoff W A: A Case of Fat Transplantation in a Bone Cavity (E. Fail on Fettransplantation in me Knochenhöhle). Med Ober 0 3 1 763 By Zentralbi 1 d ges Chu u. Grenzeb

Fat transplantation was proposed by Nether to pear ago but ass first stices fatility used by Chaput to fill a bone cavity, in 1904 in Germany Malkas reported the first three cases in 1917 in Russal Hesse klopfer and Lawrowa performed the first operations in 1912. The author reports a case of his own in which 17 days after the operation the six wound had to be trimmed and advantage was taken of this opportunity to look at the transplantage fat Rt did not seem to have changed and when removed the superficial layers did not bleed. Prob ably this indicates that the fat had laim in the bone cavity as a foreign body. The patient recovered Strootzeso.

Reim, E. Replacement of Tendons (khi sche Bet trag sur freen Schuen erpfl az g) A k f kl Ck 913 Ct 5 By Zentralbi f d ges Chi u Grensgeb

Homoplastic tran plantation of tendons has not yielded the clinical results that was e pected from the experiments on animals. The transplants generally take and there is only them story necrous but the permanent results leave much to be desired therefore the transplantation should be autoplastic whenever possible. The material is obtained from the control of the

The regulatio of exerces important for the ultimat result, for it is undertaken too e rly adhesions may be formed with the surrounding tastices which will it terfere with functional activity the adhesion must then be joosened and recurrence.

prevented by the interposition of fatty tissue II
the after treatment is too energetic stretching may
occur at the point of unlon of the stump of the
tendon and the transplant this will have to be over
ome by an operation to whorten the tendon again
Long continued after treatment and careful surveil
alace of the patient is indispensible Ten illustrated
case histories show the excellent results obtained by
Rehn

Three times defects in the extensor tendons of the fingers due to trauma were repaired four times on the fixors of the fingers and once on the thirlis anticus. Once the tendon of the extensor hallucis longus in a case of paralytic club loot was replaced by a tendon of the palmaris longus. The author has yet under treatment a case in which the tendon of the flexor produnds of the right index finger de stroyed by a phlegmon of the tendon-sheath was replaced by a pince, 8 cm long from the tendon of the palmaris longus. In this case he had to aborten the tendon afterwards as a result of stretching

Norton W. A. An Improved Method of Haemo stasis in Shoulder and Hip-Joint Amputations 5 g. Gyn c. & Obst. 1914 xvi. 103 By S. rg. Gynec. & Obst.

Norton describes a method for controlling ham orrhage in shoulder and hip joint amputation A four inch bandage and an Esmarch rubber

A now man began and an assument rubber coursinget is all that is needed. The bandage made into a 3 or 4 ply strp is laid upon the chest extending over the shoulder and a similar strp is held over the scapula. The Esmarch is applied over these strips and punned securely with safety pins. The strips are folded back an I banded to a nurse or tied under the oncost extended.

Fr bp joint amputations an anterior strip is placed to that the outer border of bandage touches the anterior superior pine of ilium and the poste to strip is placed so that the inner border of bandage touches the tuberosity of the ischium the Esmarch is then carefully apple do over these strips and pinned securely to them The bandage pulleys are folded upward and pull is exerted so as to keep the Esmarch strip in the crotch and in the groover below the anterior superior spine of luim. The below the arterior superior spine of luim. The population of the population of the position of the population of the strip of the population of the

The author advocates this method for amputation and for removal of neophysms about the shoulder and it p and claims for it the following and integer (i) its implicit () it does not impair already lacerated tissues as many of these cases are true matrice and the surgeon is often taxed to find tissue for a flap (3) perfect control over bleeding areas by pull ng above or below as occasion demois (4) fresh helds are not opened up for infection as in necessarily the case when Wyth a needles are nationated (5) the time of operation is shortened therefore the shock is ultima before the shock is ultimated to the shock in the shock is ultimated to the shock is until the shock in the shock in the shock is until the shock in the shock in the shock is until the shock in the shock i

#### ORTHOPEDICS IN GENERAL

Cantas, M Pathogenesis of Madelung's Deformity or Radius Currus (Contribution & 1 tude de la pathogéne de la déformation de Madelung on radius urvas) Lyo chr , 1913 x 434

By Journal de Cheurge

A gad of nuteen with undeniable signs of tuberulions such as repeated attacks of broachish harsh breath sounds at the left apex and old indianmations of the cerevail glands consulted Cantas for a deformity of the left winst that apopeared eiter boxame inflammatory symptoms such as swilling and reduces of the skin pain and slight fever The cheef lesture of the deformity which

had prevailed for six months was a bockward dislocation of the head of the ulna which formed a very marked projection on the dorsal sur face of the wrist. The ulna had lost its contact with the lower end of the radius and with the carpus and the whole hand was deviated outwards Palpation and radiography also showed decided deformity of the radius the lower part of the diaphysis of this hone 4 or 5 cm from the articular cartilage seemed to be enlarged twisted and apparently shoved down This jamming down was more marked on the external border where the displays seemed to be folded on itself like an accordion. This resulted in a change in orientation of the articular surface of the wrist, which looked downward and almost directly outward but the articulation f the first row of carpals was almost normal Only the internal third of the articular cartilege of the radius was unble and there was no curving forward of the lower epiphysis of the radius which is mentioned in most of the cases of Madelung a disease By comparative measure ments of the two forearms it was found that the ulnas of the two sides were of the same length but the radius of the diseased side was 2 cm shorter than that of the well side. There was not much functional disturbance there was however a little difficulty and pain on forced movements of

flexion and extension and the patient tired easily To remedy this deformity and se establish equal sty in the length of the two bones. Cantas resected I 5 cm of the disphysis of the ulna 4 cm above the styloid process then he straightened the radius by manual fracture The ulna was sutured and immobilized in a plaster cast for 30 days and the functional result was perfect The tadsocarnal articular surface resumed to normal position but the ulns till failed to come into contact with the carpus and continued t project markedly at the internal border of the wrist Cantas attributes this case to inflammatory tuberculosis following the theory that Poncet and Lenche have applied to other cases of radiu curvus. The bony lesions pass through two successive stages that of osteomalacia and then of condensing osterus

Cantas nork on the history and pathogenesis of this affection is conscientious but it does not give

any new information and there is a certain round soon in it in fact he repair ration covers as Madelungs sublitation as the same thing which to us it seems undispensable if continuous a which a worded to separate the two types which have distinct austinuited picture. He thinks to additute the abstract asstanding picture. He thinks to attact the theory of rackets best explains the pathogenesis of the desers and any that rackets may regarded as the conveogence of a general intense. June 19 picture of the distinct of the picture of the being due to various causes, such as inheritoins being due to various causes, such as inheritoins syphilas gastro intential disturbances, sicohol tic These different origans would have to be separated to attain any degree of cleaners.

Cut La one ext

Lorett R. W Principles of the Treatment of
infamille Paralysis. J Am JJ Azz o 4 line
45
By Surv. Cyne. 2 Clost

By Surv. Cyne. 2 Clost

The early diagnosis of infantile paralysis is probably not of much moment to the patient be cause even it the diagnosis is made early in soloubtial if anything can be done to influence greatly the course of the disease

Since the pathology of the affection is essentially a hemorrhage myelits with a widely distributed accompanying meanights the acrite attack and the days following at demand general quiet irredom from existement and activity for at least three heeks or until all tenderness has disappeared Hezamethylenamine has been used in the actie.

Heramethylenamine has been used in the scute stage and occasionally cases occur which suggest tas use but no two cases are slide and the outcom of the case as not holly determined by the treat ment received. The treatment for the tender con valencing plasses as to let the patient alone except for the prevention of contraction of the Adulties two or three wesh become tousiblesoms in the first two or three wesh become tousiblesoms in the first

With the dissoperance of the tenderora the time for starte treatment has begun In the sevent cases however active treatment should not be begun earlier than four seeks after the once even if the tenderoras has dissoperated. The tenderoras the disposal are manage electricity and muscle training. Massage unplot exhibition that the local and general corculation facilitates the flow of lymph and retards muscular deterioration. The value of electracity has been overrated. Muscle training is the most useful of the three therapeutic measures inspitioned.

Unless the destruction of the cord has been ary attranse at it ory likely that some of the motor enters in any one r gon will he escaped destruction and it may be possible to estable he new confections around the destroyed confections around the destroyed could read to supply the part of the destroyed could be supplyed to supply the destroyed could be supplyed of a much it raining as to establish chees modified of amount and develop them. Daning much training braces and apparatus about the supplyed of access fayr to pre can applease to an addernmity

Operative treatment is undertaken (1) To correct fixed deformities (2) to improve muscular function (3) to secure stability of useless joints

t These deformities are usually eas ly remedied by stretching and cutting

2 The improvement of muscular function is accomplished by tendon transplantation into bone or periosterum and by silk elongation of tendons These operations should not be performed under

or penosteum and by silk clongation of tendons. These operations should not be performed under two years after the acute attack.

3 Arthrodess is sometimed done in adults and children over twelve years of age but for the ankle silk ligament suspension is to be preferred. And for the knee most intuents prefer a brace which can

be unlocked for bending or sitting down

Bl nchard Neglected Infantile Paralysis im J Orth Su g 1913 x 262 By Surg Gynec & Ob t

In Blanchard's ommon the hexamethylenamine treatment of poliomy clitis is of no proven value and the use of electricity and massage is a waste of time He beheves the cases should first and last be in the hands of the orthopedic surgeon to pre vent deformaties from paralysis and contracture Transplantation of tendons about the linee such as hamstrings to quadriceps are u ually failures although practiced by Lange Lorenz treats quadriceps paralysis by supracondylar esteotomy producing a back-lock to the knee and enabling the leg to hold the body weight Jones of Liverpool does a skin shortening operation on the con ex side of the deformity removing an area of skin and sutur ing the edges in the proper line to produce to sion in the required direction this tension however becomes mefficient after a time because of stretch ing of the skin. The silk ligament attached to be e at both ends is satisfactory. Discussion of this paper brings out the use by Gallie of Toronto of the tendon of the paralyzed muscle instead of silk as a guy rope Verve anastomosis is suggested as the ideal operation for restoring muscular equilibrium but it i still in an experimental stage

W A. CLARK

Stoffel A Treatment of Spastic Parniysi (Zur Behandi g d spastischen Lahmunge) Ver kandi d deul h orih p Geselfsch 9 3 m 337 By Zentralbi i d ges Ch u Grenzgeb

The author first discusses the ongon of spastic parisys and gives as his own opmon that the pathological c addition of the muscle is characterized as a great or of a degree of pursus ( ) the to most the muscle is imperfectly regulated. Thes two factors may be differ nuly proportion ed in different cases and frequently parents in the least important one Fr m his epicace proposed to the muscle of the muscle

cause of injury to the brain the secondary condution is brought about by the fact that esternal conditions cause the muscle so injured to be kept in a certain position for a long time so that the points of insertion of certain muscles are brought closer together and become hip pertonuc while their antagonists are lengthened and become hip potonic — contracture results.

Stoffel gives numerous cases in his practice as well as Munk s experiments on monkeys to support the above view Treatment therefore should seek to prevent the secondary condition or if it has al ready arren to transform it into the first Prophy laxis can be acc implished by changing the position of the hmb several times a day and by passive and later active movements If the secondary condition has already begun it can be overcome in mild cases by splints apparatus etc in other cases operative treatment will be necessary He discusses the aim of operative procedures on the limbs in pastic paralysis which is chiefly to overcome the hyper tonicity of the contracted muscles but he rejects tenotomy shortening the antagonists of the con tracted muscle tendon transplantation to the an tagonistic muscles and nerve transplantation recommends h s serve operation as the only logical procedure \ partial el mination of the motor nerve paths causes an immediate disappearance of the hypertonus and allows correction of the deformity The operation only furnishes a basis for the very import at after treatment CRETTA

Da is comments on the rapid rise of orthopedic urgery as a di tinct specialty and lays emphasis on the marked progress shown in the treatment of poliomyelitis À few years ago trestment consisted practically of electricity massage and braces but in recent years operative surgery has opened up a new field of aid for these paralytics Operations at present are resorted to as a late procedure and only when further improvement or restoration muscl power is not to be expected surgeons become more experienced operative procedures will undoubtedly be resorted to earlier than is n w considered advisable In many cases the patient must either look forward to wear ing braces indefinitely or else the limb must be so rearranged anatomically that it can fulfill its pur pose without apparatus

Remodels g is done by operations on the bone and joints to restrict their movements or on the tendons and muscles to restore the balance of the flected parts Each case fifters a problem in it self. 4s an example of the benefits of operation. Davas presents the case of a boy 13 years old who has paralyzed in the lower trunk and left lower extremuty. 4t the age of one year the back was partially paralyzed the leg and foot were fist like with no power in the muscles except the becept and

one or two of the foot muscles there was extreme outward rotation of the foot and later knock knee developed. For seven years, braces for the back, and leg were worn but as the boy was exceedingly are the braces were continually being bent or broken and were in constant need of repur

In order to do away with the continual expense and annoyance of brac wearing, operative procedures were resorted to knock knee was first corrects I b esteotomy of the femur Three months later fixation of the ankle-joint by arthrodes s wa performed at the same um the becept tendon was transplanted to the patellar tendon to get extension of the knee and the anterior part of the fuscia lata was utured to the great trochanter to sure internal rotat on of the foot Brace were worn until the operative wound were healed and then they were discard | It the pres nt time the boy walks well with no external pphance the foot 1 held in the no mal position, and the course of treatment 1 ended instead of being indefinitely Dr T I Was cs urg on

Varishall H W Old and Recent Ideas Concerning Treatment of Flat Foot Best W & J ot 4 By Surg Gynec & Ohst

The author cells attention to the vast number of people wronipshoes forthopedic design and plate and says that in spite of precise knowledge if the nantomy and prubology of flat foot which has accumulated the fact rums is that a considerable number of person are made wome by hose with feather than the made worse by hose with feathble shanks may are not improved by arch supports and it is some continue to he evel feet after trying all method

The first important reason in the author sopi on for failure is du the f ct that wrining of orthopedic shoes and plates is due to whims of customers, relying upon experiences of their friends and the privatesion of shoes alterned and to the fail re of physicians to understand the pricise eds of each patient

He states that the informatid dissection demonstrates that feet abjects it to tight shoes are changed structurally in hones and inguments and it is foolish to expect to put deformed feet i orthopedic shoes as normal ships or up be restored abjects.

In discussi g arch upports he points out that in acute foot 1 aim frequently dditional pressure to the arches cannot be indured and that often the nearing of flexible shock and the both hime t of

nificial supports n e good results. He bungs forth h protulate that there is a eef for a better understand; g of physiological consequence of the number of the protung of the protocol on the haif solution. I the treatment that silbourgh in the protocol of past physiological defects or primary cong nij peculians.

The normal cond tion of feet depends n the fol-

The amount of weight borne and the length of time it is indured

The degree f healthy vitality exiting at the

particular time in lighments and muscles supporting the arches the tis represented by their strength 3 Favorable and unfavorable qualities of blood

These considerations in co junction with the automical and pathol gical finding make the only

working formula for each case

The proper view to take toward various ortho
pedic devices in I shoes is one of recognition that
most of these have ments and thit they indicate
the number of stages through which any angle cuse

may puss

He emphasazes the fact that health always represents a balanced state between vanous physiological elements and treatme t in duvided ally as toward restoring usual ratios between these several torces. In health if a person becomes heavier the compensatory changes in the strength of muscle and i gament are seen so that normal balances between the pressure upon the arches ind muscle trength are not upost.

in weak-ened feet pressure and strai are diminished by supporting trehes by reducing mechanical strain by rest or by continuing supports with natural rest

Lascular elements in development of foot strim are frequently poorly understood yet is importa it influence it convincingly and cated by the lequency with which debuttated cond tions indicate development if foot sympather.

The author discusses intest all puterfuction and its effects on the co dution of the blood with result ant anamies and articul r pa as. He thinks that it proportions of a betaness in the circulation remain favorable the individual thrives but more interest in there is a deterioration muscles and its mention as well as organs suffer. He may apple for a more thorough understanding of the changes in the Hood and the biological needs of laying treases.

Many cases of train n Marshall's opinion may be cured by a general tome treatment but that some cases of fast foot must be recognized as beyond control when chromic progressive diseases of the gastro-enteric tract kidneys and other organs preve t correction of vascular cond tions

The autho sums up by saying that too much can of be known bout anatomy and pathology jett it hould be remembered that of themselves they off r only incomplet suggestions as to proper treatment and equally important physiological and by logical needs must be understood and familiarized.

J O WALLACE

McIlhenny P A Flat Feet and What They Lead t V Orl W & J q 4 ix 1 5 By Surg Gyner & Obst

The author describes the two man arches and thing depression of the logitudinal arch. H

states that in order to get rid of painful symptoms the foot is abducted beyond the weight bearing angle until the whole leg is rotated outward this in time causing a stretching of the capsules and legaments on the inside of the knee a position of flexion and genu valgum

Is a result the Bead of the femur is rotated forward producing a stretching of the anterior legislents and a consequent liaity of the posterior portion of the capsule and the ideclement ligaments this in time allows the pelvis to sag back-sards carrying with it the sacrum and lumbar spine producing pressure on the anterior portions of the vertabur a pinching of the vertebral dues and a stretching of the posterior ligaments of the lumbar and lumbosizer! spine producing lumbar pain

simulating sciatica

To compensate lumbar lordons there is a forward bending of the dorsal spine with a depression of the steraum and chest wall. Going hand in hand from thoract to abdominal heathing he shows the resultant enteroptous. He considers the most prominent symptoms to be chronic heatsich chronic constiguation nervous instability and sometimes digestive disturbance matability and sometimes digestive disturbance matability and deformation in the first properties of the consideration of the considera

J O WALLACE

liards, J R Flat Feet the Etiological Relation of Posture and Gait Thereto M I S ge 1914 1 By Surg Gynec & Obst

The author declares that in the army efficiency means mobility and mobility spells good feet. He states that from several years observation he is forced to conclude that a faulty method of standing and walking is if not the prime cause at least a

large factor in an etiological circle
He divides standing into two classes

The pigeon toe or position of strength and readiness

2 The exerted or play foot or position of mu cular and ligamentous relaxation

He states that it is among those who stand n the exerted position that flat and weak feet are found that it is an unnatural position forced by education upon the race and that while it is an admirable position to assume occasionally when one must rest standing the ligaments are not advised to

accept continuous strain and will inevitably stretch. The strong posit on standing with feet alghtly separated heels as far apart as the toes in the better because (i) It is one of the greater stability since a square inecessarily more stable than a transple position in which the muscless and youts of the position in which the muscless and youts of the position in which the proper git is easily assumed.

He then states there are two extreme gaits in walking which merge into each other

The Indian gait

2 The splay foot waddle He then states that all are agreed that the toes should turn in walking

He says the key to the correct gast is this In the correct stride the hip of the advancing leg is thrown forward as the foot is in the waddle the hip is thrown or turned backward

He states that the mechanism of walking is essentially that with one foot in an advanced fixed or pivoted position, the other foot swung forward and planted in a new advanced position to be in

turn the base or proof for a new cycle of movement. The correct strude is one in which the walker swags the body as well as the leg the toe is turned in not because the walker is pigeon toed but because the foot and body is swang around in an effort to coordinate and use all the body in walking.

In the incorrect gait the start is the same but the foot is advanced sideways an I the hip swung backwards

He gives a number of exercises and says that all patent devices intended to support the arch should be a oided by soldiers

J O WALLACE

Ryerson E. W. Recent Advances in Orthopedic Surgery T x St J M d 914 285 By Surg Gynec & Olst

The autho expresses satisfaction with results in cases of Potts of disease treated by the method of Albee 1 e transplanting a bone splant from the tibia to the split spinous processes of the vertebrae in hip and hene tuberculous of adults the joint should be analytosed as soon as possible by a conservative resection or arthrofess

Deformities due to infantile paraly is may in many cases be corrected by tendon transplantation using Lange s bichloride silk insertions should be made into the bone through drillholes. Suspension of the foot by heavy silk cords is successful in many cases of drop foot where no transplantation

Abbott s method of treating scolosis has given encouraging results, but requires more time than at first estimated

All cases of arthritis deformans usually due to toxins from some definite focus which is most often in the tonsils should have tonsillectomy performed as a routine measure

Mechanical disturbances of filth lumbar vertebre and sacro-line joints are frequent causes of scatica lumbago and backache. Arthroplasty for anky losed joints is successful in jaw hip elbow houlder with a finger joints but disappoint ing in the knee-joints.

# Q2

# SURGERY OF THE SPINAL COLUMN AND CORD

Roth R.E. Spinal Currature (# ) 1 5 U G B) 5 TE ( ne. 2 Obst This art cle deals entir by with lateral curvatures

Answer the newsering six only a functional or out we All small curvatures are eith r functional or organical become functional curvatures when neglected become functional curvatures when he will be can be offen and are then neurable but they can be offen and are then neurable from becoming wors. The organe and are then neurolie but they can be improved or pre-cented from becoming wave. The improved or green consecuted or acquired. The excused of scolours are consecuted or acquired from follows before ground form follows before the consecution of the sequenced form follows the consecution of the

pool) distorting compilions his to disease of the both parts and or nimous malposition from light soit parts and or numous mujonation room usual control of the proper posteriors in liabit or or occupational scolores hould not occur and a 11 not of proper posterior accompanies of the proper posterior and proper posteriors in the proper posterior of the proper posterior and prope

mannamen during for since of reversioners, ruses to not not for hay Lat rai cur turk are often found among athleter and those the notifier in tound among armeter and more was request in the markes of one one ( the pag) more than the statement share barriers shares took to which

The author uses a simple an I rational treatment the sociot me, a similar and to 3 months first necessity teelu ate musele sense new necessary cree is see more perse and all faults are pointed out the corrected position is then are pointed out the confected position is then assumed and this rout ne is repeated bet ne earthur assumed. Before prescribing curative exercise the confidence of the conference of the confere author tures to correct the shiral care. Ph blocket author thes to correct the spinal cure by Wromen the upper extremules in certain positions for tion oricited position; talked the Legions for tion and to montanamed durant the researched accesses and to montanamed durant the researched accesses.

and it maintained during the precribed exercises and it maintained during the prescribed exercises.

The movement, though carefully that revose there are experienced and the second of the sec faired of and enhanced and for this reven library of the second of the s

uter arout two needs of curait e executes improvement is noted and only in the spacel conduction to the first part of the spacel and the spacel and the spacel and the spacel around the spacel and the spacel around the spacel aro IN THE REPORTER IN THE WAS A STANDARD TO THE WATER A S

of Isasis

Viewer and Delapschier R Scotleris and Chronic hope of the line of The author found from repealed ober ations

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on chron appendict 5 in \$2 care 37 per cent
this a count of the pain localized on the 7 ght side
with the marrier tone of the nector and rightnice mis
and the marrier tone of the nector and rightnice mis and the unitation of the rectus and oblique ma

and the contraction of the rectus and odorptor mis-cles the hild bench to the right and these times convex a near the convex a party of the convex and the contract of the convex and the con-traction and the contract of the contract of the convex and the contract of the contract of the convex and the contract of the contract of the convex and the contract of the remee i wand in jen toward the right of he remember and me to the law are tree were and remember up pr egern s fiet

chronic appendix t

approperton

Contain C. II : Typhoid spine with Report of a Contain C. II : Typhoid Thromboghidaits of its Case Complicated by Thromboghidaits of its Left temoral tein In Surve Cross. 2. (But 1).

Typhoul pune is rather rare only specified in the cases beam found in the intense traces. Beam found in the intense traces he made the cases beam found in the case in the cas are prin and a fourly in the lower down muscles, excitable 1) muscular (antchings, dermatographia excitability reuseable teatchings, dermatographia and rarrdy a protected kerming son 11 h kerming series of the protection of the series of th immonuzation of the spine counter irritation and selatives. The author reports a case of about an points duration accompanted by swelling of the months outsides accompanies of 101 degrees, which nude a good recovery under adhesive strapping of made a good recovery doner sounder, and an elastic

Cal & and Letterre Radiography of the vert bral Column in Profile in Folt's Discusse & Obst. stocking

The e riest upon of tuberculous of the spine hown by the rotteen ray is a contract neture of the hown by the rotteen ray is a contract neture of the interver beat day. the spine shows that in the production of the kyphore and in normal Benon and extension the as of movement is not as his been said in the of the party of th poscerior y T ural articulation as a pinot, but in the center of each body \( \) line connecting the cen-ters of all the bodier is called the return I a production of the heathers of the return I a seed us and the around in caurel the mental ine fact production of the hyphore is shown to be identical mark a some marked-many forestern of the marked production of the although is shown to be identical such a true pathological fracture of the spine NUM & True parnoingical reacture of the spine sources in repair surer is no proformation to profe dut allos as in traum to fracture. The profile method of study also shows that there is a construction on a form, of force is a construction.

method of study also shows that there is used to consider a study also shows that there is used to consider the study of control of the study of the podes par no new form fron of pour

Foret ( and t-randoms Surfery of Turnors of the special Colorens and Cord (L. Ansura d. ) special Colorens and Cord (L. Ansura d. ) are et al. ( and colorens and colorens are et al. ( ansura de la more) format de l'ansura

The author 1 ports 107 cases of ortehnol tumors and 1 tee that more of them are curcumonass are compared to the control to the reconsists benne rare. The executionness were the reconsists benne rare. The executionness of the breast of the property of th

In uch ses there is extrem | sharp pain which FOR OUR SEA PHONE IS EXISTED. SENTENCE OF THE FORMER, MY IS not exerceme by rest at 1s due to compression of the spinal nerve roots. If the antenor roots are involved there may be painful paralyses (Charcot). These root symptoms precede the medullary symptoms which do not show anything especially characteristic. There is first finecod paralysis with abbition of reflexes and then spatis practiques with the control of the special paralysis with the special paralysis of the special paralysis with the special paralysis with the special paralysis of the special paralysis with the special special paralysis.

Of the above cases 55 were operated on 32 of of them for sarcoma 15 for hydated cyst and only 3 for carcinoma. There were 19 deaths 30 per cent and 13 23 per cent recoveries without recurrence for several years. There were 22 per cent of per manent improvements and the rest showed temporary improvement. The greatest improvement was shown in the lesseming of pass.

The technique varies with the nature of the lesion sarcoma being particularly difficult to remove because it bleeds and invades the neighboring tissues II a radical operation is impossible it is well to cut

the posterior roots to overcome the pain Extravertebral tumors are tumors of neighboring organs which invade the cord and column secon dauly Of these there are 72 per cent sarcoma 16 per cent carcinoma 10 per cent by data (5545 2 per cent fibroma lipoma etc. Invasion sometime takes place by destruction of the vertebre but

more generally through the vertebral foramins.

There is pain accompanying these tumors and when the tumor penetrates the cord there are medullary symptoms motor and trophic which

iten appear in a rapid and overshelming fashion Operation is rarely possible in these cases because the tumors are generally mediastinal sarcomata, at the tumor are generally mediastinal sarcomata, and be removed but this is the most uncommon localization. It is always necessary to resect the spinous process and lamina and separate the dura mater from

the peducie of the tumor carefully

Non medulary tum is made the spinal cavity
are the most feque t in the most amenable to
surgical treatment. The majority are sarcomita
surgical treatment: The majority are sarcomita
They are and a lavays accordary.
They are an accordant to the solitary can be isolated from the neighboring times
and rarely recur—o per cent of cases did not recur
They generally originate in the dura mater the
operation can be extradural in about 65 per cent
of the cases and fortunately the posteroisteral fortions in the most frequent. The compression of the
times in the most frequent. The compression of the
transfer of the times.

In the first stage there is persistent pain of long duration whe fin y be on one or both adds then Brown Sequent as a ndrome apper is Finally, there is past a tank then fixed in Figure 1. The corresponding disturbances of the reflects, with loss of control (the sphinctern at fropping disorders. They control the first caused by a hormontal les on not a x in an appear at point in the result of the point in the part of t

There were 27 cases of medulary tumors These were generally gluomata or sarcomata in which the spinal column is intact and generally the meninges also The tumor may be capable of enucleation or it may have infiltrated the cord.

These tumors manifest themselves by increase in volume of the cord and absence of pulsation in it they are solitary and do not give rise to metastases when they are encapsulated they are under pressure so that they project from the cord as soon as an open

ing is made

The important thing to determine is the location
of the upper end of the tumor this is done by ascer
taining where pain first appeared and by the upper
limit of the zone of hypersethesia which appears
above the zone of any thesia

The operation is simple laminectomy in Sim s lateral position and if it is necessary to open the dura mater the Trendelenburg position should be adopted to avoid the escape of the cerebrospinal

Piter is preferable as an anathetic though local anserbasa may be used. The meason should be at the supposed airs of the tumor. The muscle are pulled aside and the opening tamponed to as airs hierarchically assure the most assure the measure that the far in the measure that the far in the tumor is extradural it is solitary and can be enucleated but if it is intradural the date mater should be opened gently and slowly to avoid a too rapid scene of the cerebrosymal flum. When the tumor appears it should be enucleated it possible or curetted if it is a sercome (Taltau).

If it is inspeciable section of the positron roots in indicated if it does not appear it may be necessary to explore the anterior surface of the cord drawing it up with a blunt hook. If it is 1 perable and the cord completely destroyed the section of the cord containing it may be removed which will abolish pain howeve if it i inspeciable and the cord only partially destroyed it is better to feave it alone. Unless there are special indications the entire operation and exposes the part to the Drawing it dangerous and exposes the part to the area. Devry precau ton possible should be taken to a wed indection and cert instance.

Often after the operation there is an exaggeration of the symptoms which is only temporary and im provement shows first in the sensory and then in the motor symptoms. The mortality at present is about 15 per cent and shows a tendency to improve 10 Nancae.

Pussep L. M: Diseases of the Cauda Equin and Their Operatis Treatment (Uber die I skrank gen der (A da equ a d die op rative B h nd lung d racibe) R sh l ach Si Pet rab 913

By Zentralbi f d ges Cho u a Grenzgeb

In discussing the symptoms of diseases of the cauda equ na and the conus medullaris, the author says that in conus medullari there is often dissocia tion f senation prim and fibrillary twitching are rant the disease I zones are symmetrical there is nly a slight tendency to the formation of bed sores in the sacral region but the function of the bla II r an I rectum: almost always disturbed

In disease of the cauda enums sensation is always listurbed there is generally pun fibrillary twitch ing a frequent and the discased zones are generally not ammetrical Sacral be I sores occur only where the disease is of very long duration an I the bl. Ider and rectum are not always involved. O e impor tant point to be observed is that on pressure on the nerve of the cauda equina there I frequently pain in the leg generally on one side only which is often the only symptom. The author lays great tre s on th r nige t picture. The author gives a r view of all the cases published in the literature in which operation was un lettaken for disease of the cauda equina. If di i les them into four groups (1) In the first group re the cases in which there was pressure on the cruda c juina from tumors or man present on the cross a joins from tumors or infi miniors processes of the spine there are a see reported in this group. (?) The second group neductes those in which there was a tumor in ide the dura or in the au la equ na tredi there are nune of these. (3) The third group embrace a transmitte injuries of the causia equini. (we case have been publi hed which were operated on successfully (4) In the fourth group there is only a single case of Allessan ina s in which there was an inflammat ty process of the dura mater

He adds eight cases of he own which were perated on and one which was not an three cases there were traumatic injunes I the cauda equina. In the first case after a blow on the back, paralysis of both legs occurred. On operation the arch of the fourth lumbar vertebra was found to be pressing on the cauda equina. On opening the dura there were adhesions and a cyst as large a a hazelnut which was rem sed. The patient coult in im roved very quickly after th operation but three months later he died from purul at py litis. The vulsave twitching which beg in after a se re inj ry Uneration showed that there were to use adhe wons of the nerves of the can la equinate each other an I to the duris a result of a fracture of part of they could be reached the sacrum these so far were freed. The patt at was discharged free of symptoms 5 week fater The third patient com damed of a akness in the legs which had xisted passed of washers in the egy which had sisted for eight years and bludder I turb nees whi h had persisted I r two y are. The röntgen picture showed the end of a knif bet can the first an I second sacral vertebre The knf which had been in the patient's body tilter y are was gemoved and the patient discharged much im

In four other cases ther were inflammatory processes of the spinal meninges. In the first case the patient complained of pain and weakness in the legs. On operat in a cyst. large as a hazel ut was

found un fer the pas and removed the patient was incharged, masterly improved after three weeks. The second patient complained of pain an the left leg whe the degen several month before after he had received a blow on the sacroim. On operation were noticed to be a several many the several many

In the fourth case there was pain in the right and occasionally in the left leg there had prevously been parashleid. On operating two crysts as large as plums were found between the first an I second steril vertibers no of which was inside the dura and one outs de it. The former could not be comitted to the country of t

much improved a mo th later

In conclusion the author report the file og unsh t injury. The patient was injured during th Japanese war in 1904 in 1907 he began to bay pain in the spine on motion and we kness in th legs. The runtgen picture showed the bullet in the region f the fourth lumbar vertebra, but it could not be found on operation. Severe pain was pe rienced again in rozo and the runtgen pict re sho ed that the bullet which lay in ide the body of the vertebra had unk and become located in such a w y that its per t pressed on the cauda equina Operation wa perf rimed aga an i th bullet found and removed after who hather than was discharged completely cured in the list so thre was a tubercular process in the sacrum so it was treated meet atta ly with the result that the pru com t letely 1 ppeared and the rest of the improved From all of which the of ) mptoms From all of which the uthor draws the conclusion that in chronic i flammatory proc eves in the region of the cauda equina, as well as in traumatic injuries, operation i indicated and go es good results. He further calls attention to the fact that as se gral cases show the sympt ms may n t appear u t l a long time after the injury YOU HOLST

ll nkin P perience with Foerst r' Operation,
| Im J Orth 5 g 913. 207
| By Surg Gyner & Obst

The author reports fourteen cases 1 which he purf med action of the post nor nerve roots—lucerter's operat n—for pastic conductors with good results in nearly all Constitution of the space occurred minediately after the operation and did not recur t n op ext t. The peration as described con ists in chaining off the spacen us described con ists in chaining off the spacen is the base sum of the chain opening the dura and rest ting 1 cm of the posterior root on it. W a Clear III was the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and rest ting 1 cm of the posterior of the chain opening the dura and the chain opening the chain opening

## DISEASES AND SURGERY OF THE SKIN FASCIA, APPLNDAGES

kolb, k. Experimental Study of th Contraction of Transplanted Fascia and Its Significance in Plastic Operations and Around the Intestine (Cher die Schrumpi g der frei tra pla tiert Iassi u I die Bedeut ng d rielben bei plat schen Operationen u d bei Linisch rung les D mes I sper mentell U tersuch "eu)
De 1 ch /1 ch f Ch 1013 cxx 398

By Zent libl f d ges Ch u Grenzgeb

k. Il found by mus unement that a pie e of fascus r mest I from the hold ammediately con tracted a fith or inth fit I ngth an I bre dih

This primary contraction however has no importance in practice. In order to letermine whether when transplanted it un lerwent a secondary con tracts n he placed rings of fiscia around the intestine and fastened them Symptom of stenosis and deus appeared after a time howing that fascia transplanted without being under ten ion con tract a little but that the contraction e con siderably less than the primary no Thi secondary contraction must be allowed for in transplanting fascis for operations on the inte tinal tract and on LIESCH ER the fac

## MISCI LLANLOUS

CLINICAL ENTITIES - TUMORS ULCERS ABSCESSES ETC

Rous, P and Murphy J B On th Cau tilon by Filterable Agents, of Three Distinct Chicken Tumors J | p | led | 014 | C | B3 S rg Cynec & Obst

Rous an I Murphy les tibe a third chi Len tumor which I tran missible by means of a filt rable gent. The thr e tumors are ere unlike the third being a midd of it i troma of pe uha i tra

canah ular patt rn The au ain g nt pass though B racield col nders impermeable to mall but ria and each agent 1 di tinct in that it gives rise only 1 growths of the xact kind from which it was derived. Two of the three are found to be active tumor tissue wh h ha been lined or glyc maated

TAMES I C RC IL

B em W 1 Treatment of T tanus by the Ra tional Method of Ashhurst and John the Det lopment of Suppurative Serum (Aseptic)
Meningitis, Following the Intra pinal Injecti n of Tetanu Antit zin with R port of a Ca e J in W 1 941 9

B 5 2 ( nec & Obst

I cor le g to I hhurst and J hn the rational use of tet u antito in cons ets in ( ) the intra eural ing t n of antitoxin (2) the int pinal ujection (3) the nir nous section and (4) the infiltration of the times bout the it of the jury The quality used hald be very much greater than the quantity her tale given by the ubc taneou rout Ih e authors feel that with their m thou th old iew that nitto in is of no all aft r the ymptoms f tetanus have developed must be al and ed Brem tre ted four cases of tetanus by the m thod e roto at the Colon Hos p tal ( 1/on and wad chloretone and morph ne a solut es. One patient whose case wa a severe h t n-tlav incubation period recovered

Brem ummarizes a case as follow 1 young man of 21 years with cephal c tetanus which after st days incubation showed a gradual onset of symptoms Treatment which was begun eight days after the injury and two days after the onset of symptoms consisted of intraneural injection of a small quantity of tetanus antit xin into the left facial nerve intraspinal injections of 23 000 units intra enou injections of 60 000 units ubcutaneous injection of 8 000 units infiltration of tipues about the site of the injury with 2,000 units total quantity of antitoxin of occumits development of meningiti within six hours after first intraspinal injection purulent fluid sterile by micro-copical and cultural aerobi and anaerobic examination. There was rapid recovery from both the tetanus and menin gitis

Brem con iders that this case demonstrates that the introduction of a foreign serum into the spinal canal may ause a r cts n that presents all the clinical and pathological evid necs of an acute ppuritis meningitis except that no bacteria can be demonstrated in the purulent cercbrospinal

fl d It cems plausible that exacerbations fre quentl following the intra pinal injections of serum n memingococcus meningitis art, lue to the reaction to the horse serum and that it is independent of the co ditt n of hypersen itivenes

#### BLOOD AND LYMPH-VESSELS

Dibernardo Traumatic Arteriovenous Aneurl m of the Common Carotid and the Left Internal Jugular Fatirpation; Recovery (\ne same traumatique rtén> et u d la carotide prim t td | j z | re t me gau hes t mp two guerison) C/ k oli z 2180 B Jaumald Chrurg

Cases of the above are rate is not also there have been only as oper tion for arteriorenous a current f the common can cut and the internal

jugular and only I ur of these have c my ted in

One patient w an young gard of an who had been extirpation of the sac shot three ) are pre you. The bullet had entered above the left clande between the sternal and clasicular heads of the ternomistori and a few weeks later an abnormal levelopment of the sub c tlancou venous network if the left side of ber face was noticed | Recently she I ad ha I sul pectare symptom such a periodical headaches on taxi, thou phot a of the left eye and especially busing in the heal whi h ! turbed her sleet

The parents wer most is treserd by the farial assumetry which had developed the frontsi and the left of row maxill ry hal leveloped ab-ormally th venous I latation had ester led to the frontal and right panetal regions and in the left lower e) hil they were a large a the little fager showed thythmic pulsation sechronous with the rad u conjunctiva w injected but the two pumis were the same size linker the sternoms told on the I ft sale there wa a tume e the size of an erg with the h seet to be at the supracta scular scar It pulcated Anchronou ly with the heartheat and a thrill was percept ble and pressure did not change its

character or reduce its volume Th tumor wa beyond a doubt an arteriovenous ancurem f the common carett and internal jug ular caused 1) the traumali re An increm sur made over it and the sac which was de rioped from the internal jugular having been bolated the here internal jugular naving oven recently and The point I commun cal n a th the common external and a secure paracetrized enemed It wa contriled however the edges of the tear caught with for eje and Iz ted the aneun rul are with a part of the Jugular on each side was removed and the satured segment of the carotal

The operation took three hours Brance I and was left in place er preented similar dacultes in recessity t re-resect a part of the Is the and of the man brown of the sternum in Lanteris To the and it the man calmin of the standard in Herren u w removed note that me me the fact that the opera tion lated for hurs little spots of the late of the collection of the persion were collected for the same of the persion were collected for the persion were collected for the persion with the persion were considered for the persion of the persion with the persion of the persi

Mirotworseff & R Lig tion of the Carotid Artery reteorses h R Lie tion of the Caronia strength in Human and Experient call Pethology and in Human and Experient call Pethology and the Lie and deser Lebre i fet rib B d Opper i fet rib By Zen raibi i d ges Ch

The author re sews the w k of Prof Oppel and ane author re news the w a or a cor office and h a school in studing the liter left ulation and the new ways for in estig 1 g th 1 gation of the the new ways nor in cauge i gen a gamon of the great artenes til work ppd es especi lly to the b great arteries til work fourth expect my to the p gation of the carotil art re plane changes which

t ke place in the brain after it Anatomically the collateral pathways have been stu lied before now the thief att ation must be directed to the strength and conditions of this collateral circulation brain I not injured by lighting the carotid as soon as the collateral circulation is established. To d cover when this takes plac the author carned out len experiments on animal right and left carniels and the vertebral were ex posed in dogs a T tube was inserted in one cum mon carotti and co nected with the manometer of a Ludwig L mograph The art nes were th a compressed in I fferent combination gion thus excluded and the variations in blood

The most interests g results of the experiments pressure stu l ed are the following the compress of the experiments are the following the compress of all four arteries in the neck the two carot is and the two acriebrals the blood pressure loss rot f Il to zero as would be expected but remains at 46 f gure shows th strength of the collateral curculation, which may be sufficient to provide for the nutrition of the bran this collateral circulation is of con ider able plume and depends a the strength of the general blood | ressure | Hamorrhage therefore is very detrimental to the formation of a coli teral circulation If the external carried is row ligated the collateral blood pressure an he raved even after hamorrhage has taken place Theoret cally theref re in ligating the common

e not it h external caroted of the same sel should c runt in external carons of the same of also be ligated. The pathway f r h 1 charge of also be blood is thereby eccer sed and the trength (the of litteral circui tion increased). cor I tions favoring the dev lopment of the collateral circulation can be produced cheft) b) compression is devoted thinical res its and a comparison of th m with the perim atal ones from Piles stati ties, ligation [ the common cared I h a been performed ) a times with a tot I mort It of 9 per cent un that I me the mort ity handers el

The uth I port three 2003 fbis an in ab ch from t per cent to 1 per ent Ig ted for se ere hamor If the c see after mmon antil

De th occurred ca he i d i rb men i gatu Beath I flow ng c reor ng me a ray proc or licath I llow ng c rel I reprorm pl rel I) the fact the or
acoust ith low blood present for a severe
before the c clisis r I rul non annot be bemurth or a cultat r l rual turn annot be cit l bed. The count [the lighton [the cum mon roll the f depend on whether the poor the to est hith roll territion slatters or not

POISONS The Infection ( Children with Mit hell 4 P The Intercting Bacillu P of & Chat ses with t ber

Igind wer nirthree care i ge Twent tour | seve t t

Of these twenty four only two were proven to be of the human type the rest were all bovine Lighty four per cent of the children thus afflicted two years of age had been fed from birth on unsternlized cows mil, and in only three cases was a history of tuber

culosi found in the family The author states that cows not having tubercu lous of the udder may readily transmit the tubercle bacilius in the milk. He emphasizes the extreme importance of adequate dairy inspection and the taking of the tuberculous cows out of the herd as one tuberculous cow may readily infect the milk of

a good sized herd

The relations between the channels of infection and the group of glands involved; di cussed He says the more frequent involvement of the gland in front of the sternomastoid muscle in the upper carotid region is atrongly suggestive of the faucial ton ils being more often a source of infection than the adenoids. He investigated the frucial tonsil in 64 consecutive case of children suffering from tuberculous disease of the upper deep cervical glands Twenty four of these cases showed in to logical evidence of tuberculous in the tons is but

no chuical signs were present

The chief sites for tuberculous lesions in the tonsil are in the deeper parts of the crypts especially the supraton illar group or immediately under the mucous membrane near the mouths of the crypts or deep in the tonsil close to the posterior capsule He concludes that cow a milk containing bovin tubercle bacilli is clearly the cause of 90 per cent of the cases of tuberculous cervical glands in infants and children residing in Edinburgh and the ur M S HEY E 501

rounding district

Massini R. Method of Cultivating Anaerobic Bacteria and Their Clinical Importance as th Cause of Putrid Suppuration Especially of Putrid Empsema (Ube natrobe B kt ru Bedeutung derselben fil die M I k als Ursache 1 ch ger F terunge m t besonderer B ru ksi ht igung der juchigen Empyeme Beitr i U thochk der Anatrobenzucht ng) Zisch Wed 9 3 11 81 By Zentralbl ( d ges Ch Grenzgeb

The author has studied a number of the k own anaerobes especially in their relation to human pathology. He adds also the description of three new species of ansérobre barteria bacilius discrior mans, bacilius annuhiformans, and bacilius anaéro-bius diphthoides He comes to the conclusion that the frequently asserted variability of anaerobes is a mistake Probably pollutions of the cultures with other micro-organism are so interpreted for anae robes readily grow in symbiosi

As previous methods of culture do not enable one to be sure of having a pure culture or of recognizing pollutions the author has devised a method that enables him in a relatively simple way to plant a great number of series in plates. The bacteria promulgate faster and grow better if riba or erept n is added to the nutrient medium and salt left out

I ollutions are easily recognized by remoculations on erepton bouillon

The author confirms the statements of other authors that the putrid decomposition of pus is generally due to anaerobes He could grow anaerobes from all the specimens of putrid pus examined from empyema liver abscess putnd bronchitis etc. The nus was generally thin and contained few leucocytes the wounds generally showed little tendency to heal there were only slight signs of reaction and the patients often died suddenly The author recom mends Bulau's siphon drainage in the treatment of purulent empyema STANKLER

Ten Broeck L. L. A Rapid Method of Isolating Pathogenic Streptococci from Contaminated Fields J Am M Ass 19 4 km, 3 By Surg Gynec & Obst

The technique devised by the author is based upon the following principles The use of liquid media as suggested by Sabouraud the extreme susceptibil ity of rabbits to streptococci the peculiar reaction and vulnerability of the peritoneum to streptococcal infections, as described by Murphy It was found that by grading the dose the peritoneum would fall a prey to the streptococcus even before the other pathogens took hold and that a certain point of the disease wa reached when there would be the characteristic dry peritonit's or retroperitoneal cellulitis Intraperatoneal injections of from 2 to 5 ccm of fresh bouillon cultures of a mixed growth were made every two or three hours earhest signs of sepsis the animal was chloroformed and a dry peritonitis was found yielding pure cul tures of intensely virulent streptococci

This method has been used in four cases of sub cutaneous infection in all of which the diversified bacteriological flora had misled the attendants and in which the method not alone promptly cleared up the diagnosis but was made the basis for proper immunological measures with favorable results

The author does not suggest that this method be used to the exclusion of others It is to be used in conjunction with other approved methods. Aeither is it to be expected that there will always be a pure streptococcic culture to the exclusion of other pathologists but the peculiar reaction will help establish the diagnosis. The more virulent the streptococcus, the more certain will be the result

In persistent postnasal infections the author has been able to find the streptococcus by first using negative pressure to draw from the deep sinuses and then having the patient swallow to isolate the posterior nares he changes from negative to positive pressure opening the other nostril A stream of air in this way is forced into one nostril and out the other and can be directed into suitable media. The colonies on the solid media are for the most nart discrete and are derived from the posterior nares just as well as from the anterior a result im possible to attain by any method requiring the use of a swab. EDWARD L CORNELL

#### SURGICAL THERAPEUTICS

MacFarlan D : Notes In the Study of Potassium Mercuric Iodide J Am M 5 : 1914 Ixii 17 By Surg Gynec & Obst

The author presents mute an extensive stuly of the drug He shows that in a dilution of 1 to 80,000 it renders cultures of bacillus typ hosus, staphylococ cu bacillus lactis bulgancu yea t sugar solution an il acillus aci i factici steril even in a diution of 1 to 00 000 the bucillus typhosu was killed The preparation of the lrug its toxicity the effect on phy tol great activities and its uses are dis cussed Little can be all of the nomous effects on the g trounte tinal tract when the drug i taken internally in mill loses. There is no t lubits n of ferm at activity and u h harm as coul ! occur would are e from the festru too of inte tinal l actena

Regarding it internal weet the author states that it seem t have a marked flect on all extarrhal conditions of the mu us membranes, clearing up the common col! apparently hortening the course of croup and modifying the acut infections

of the nose and throat and br nchi It has its greatest field of usefulness, however as an antisepts It is practically universal in its pos bilities, for in gre t dilutions its local effects and toxicity are in ignificant while its germicital qualities still remain high The value of these virtues can realily be r all ed from the following facts brought out by the author

The drug may be taken internally in doses of g drops of a one per cent solution without toxic effect

2 A one per cent solution but slightly irritant A dilute n of 1 to 80 000 or nearly one thou sandth of one per cent exhibits marked germicidal

By its use the purulent lischarge of so many minor surgical cases such a infected burns, old leg ulcers and ragged wounds I rapelly cleared up I ven when the injection is somewhat subcutaneou as in felons and boils and there is as yet no pointing or definite formation of pus a wet dress ng of one per cent pota sium mercune-todide will usually reduce the prolonged course of the case an I will frequently also et it altogether

For sterilizing instruments the lrug is excellent except for its tendency to tarnish if left in contact too long thi howe r can be easily overcome by the add tion I sor um bicarbonate to the solution IN DI LOR ELL

#### ELECTROLOGY

Morton R: Discussion on the Technique and Standardization of Bismuth Meals. F. E. R.) See VI I 1013 VI Electo Therap Sect. 5 By Surg. Gynec & Olist

Morton of served that the adoption of a stan land onaque meal would make results comparable. He had sought information from various radiologists on the following points

f Total q antity 2 Amount of bismuth or barrum which preferred and why

3 Medium of suspension

Consistency Flavoring sugar etc

I reparation of the patient

Morton remarked that the disagreement of physicians was an ancie t gibe but the truth of it was never more in evulence than wh n he came to tabulate the replies, about the only pe at of agree ment being the use of sugar and flavors to make the m al palatable. The total out tity varied from 5 to 20 or about half gree 10 or the av rage is ag from 1 to 4 r the average ber g 2 oz two thinks of those replying used bread and milk as a medium Other med a employed wate lil nemange 1 lls lactore emul ion gum sol ti buttermilk corn flour and arrowroot The majority prepared their princets as for an angethetic Morton noted that the at m c weights of bismuth and barium were 210 and 140 respectively hence I rger volumes of the latter were necessary He uggested the possiblity of the ch mist producing a lighter form of barrum sulphate like the light form of magnes um carbonate Morton also uggested that if oxychloride of be much could be made in a lighter form it would be ideal

HERE described his rout ne which included bangm sulphate which he had been u ing two years He used two ounces of it in fou unces f oatme l purnder with one ounce I milk. I a little brown UESF

Others who participated in the discussion were Alrindge Bythell Bruce Coope Codd, Bailes Batten a d H lland O met in a Committee of the Section c mpn i g H rt Morton Scott Barelay and Jorda wa py ted to further in vestigate the matt r t r r Muter

Shoop F J \Ry Th rapy Log | U | I | I | J | 10 4 7 B \reg | G | nec | & Obst

Shoop clum that f leep go necological therapy st is necessary t ha a machine or coulth t will show eight or mn degrees f penetration by the Benoist scal and a tube his ng ufficient acuum

reust noe to all w nly n or 1 mg t ne and a half m hamperes f rr tt flow through it. He cites fact d rs tt g that it is the rays halted in th ti u | 1 bearbed by it nd not the rays th t pasethrough t wh haffest th t troue and that the hard a the trans through may by suitable screens or all be half it certain lepths as de ired and co ted t beorbable rays f r thera there is using a hard tube and peutic work vol. paper a tu 🛰 raving I iff at small area of sk n le I beet placed over the part through apert to be rucil I hang g the angle of the tube each time the rays were all directed towards the center of the mass to be rayed in the deep tissue. By this cross-fire method it is possible to produce are rythematous does at the point desired without in the least damaging the overlying tissues. The three types of usen benefited by deep raying are the fibronatous the carcinomatous, and the scleroter Conditions that on account of their tendency to depite and exhaust the possessor by repeated to the contract of the contrac

He concludes by quoting Doderlein who reports thirty two cases of myoma and hamorrhage which received prompt and permanent benefit under radiotherapy with no bad effects The tumors disappeared ent rely in many cases More surpr s ing still he found a combination of rontgen riy and mesothorium treatment effective in many cases of uterine cancer Six cases are described and repro ductions given of the microscopical picture before and after treatment. He thinks the rays had a direct effect on the carcinoms cells and not as has been previously held that the cancer cells were affected econdarily by contraction of the sur rounding connective tissue He also reports eight cases of unsuccessful treatment of cancer which had returned after operation IOHN G BURKE

Pfabler G E Present Day Danger of Routgen Ray Burns and How to Prevent Them J Am M A: 19 4 ltu 89 By Surg Gynec & Obst

Pfabler believes that the combination of enthusams for the use of the rontigen ray and a false sense of safety will lead to disastrous results in the hands of untrained and unguarded physicians and that the present-day use of the rontigen rays is perhaps made safe only because there is so much more knowledge concerning their use and danger ille believes that most of the burns which have been produced by physicians lately are due to a lack of shalty to judge the peneration of the rays needed

The author sees great danger in the increased use of the fluoroscope if physicians do not take the trouble to study the underlying principles governing the use of the rootgen ray. To sevoid rontigen burns during examinations Pfahler suggests that as small as amount of rays be used as in a consistent with the examination, second that the quality of the rays used be such as will penetrate the issues which that every examination he made as short as possible barrely lessening the total amount of rays to be associated fourth intensify a screens should be absorbed fourth intensify a screen should be absorbed fourth intensify as screen as the sould be absorbed fourth intensify as screen as the sould be absorbed fourth intensify as screen as the sould be associated as the sould be associated to the part as strailly under extinuition.

Burns to the operator may be avoided (r) by keeping entirely out of the field of rays, by wo king from an adjoining room with lead h ed walls be tween or by the use of lead lined cabinets () by confining the rays about the tube so that the only way of exit is through the aperture made for the examination of the patient and (3) by means of shields aprons gloves etc

Burss during routien therapy may be avoided (1) by following the same greend principles referred to in the diagnosis (2) by measuring each doose given and never exceeding the limit of skin toleration as indicated by the dossimeter (3) by allowing an interval of three weeks between the repetition of the dose on any particular area of sain (4) by the use of more filtration than would be used in diagnostic work (3) by keeping in mind the fact that epithelium and glandiar itssues are more sensitive than any other issue to the ray (6) the rest of the contraction high frequency currents liminents stimulating ontitions anti-

Pfahler believes that rontgenology is more distinctly a specially than any other because to master it one must be a good physician must have a good general knowledge of pathology both in general medicine and the specialities, must have a large equipment must give much time to the mastery of details and must always be cuitious

EDWARD H SEDNACE

Riehl G: Carcinoma and Radium (Carcinom und Radium) Wes & Websicke 19 3 xxvi 1645 By Zentralbl E d ges Chur u Grenzgeb

The Vienna Central Clinic for radium treatment has at present 11/2 gras of radium but the greater part of this has been available only since August 1913 The clinic is directly connected with an out patient department in which the practicing physicians of the city can treat their patients the cases treated inside having a special ward provided with radium set apart for them. The apparatus is de scribed the salts used the entire radium content and the per cubic centimeter of surface irradiated and the tin foil filter 1/100 mm thick for the absorption of the  $\beta$  rays—the  $\gamma$  rays being ex cluded by surrounding the material with gummed paper. In stating the number of milligram hours used it is necessary to give such information and state the kind of filter material used and its strength Platinum and aluminum are recommended as filter materials because of the comparatively slight degree of irritation from their secondary rays—the so called Dominici tubes for holding radium are made from the former metal

In deep straintness in which the metal filter is of primary importance 1 is well to put cotton wool paper or something of its well to put cotton wool paper or something of the effect of the secondary rays. The effect of secondary rays in the primary in the insues Attempts to settly rays originating in the insues. Attempts to settly rays originating in the insues Attempts to settly rays originating in the insues attempts to settly rays originating in the insues attempts to settly rays originate in the insues attempts to the insues or the insues of the insues originate in the insues or the insues originate in the insues originate insues origin

With the use of relatively small doses of radium there is nothing new in the treatment of skin can there is nothing new in the translation of large doses, several thousand milligram hours even large skin car cinomata were favorably affected. This was also true in a case of recurrent mammary carcinoma with a dose of 23 000 milligram hours but in giving large doses the surrounding healthy tissues were also injured although no indirect effect was demon strable on metastases lymph glands, etc that were not irradiated. In intensive irradiation even with strong filtration there are sometimes pecroses in which the blood vessels remain intact for a long time and there is a more or less injurious effect on the general condition. Too weak irradiation on the other hand may stimulate the growth of the tumor MEWNER.

Dieffenbach W. H. Radium in the Treatment of Cancer Med Rec 19 3 Issus 068 By Surg Gynec & Obst

The author gress returned at Doublemboan experience with tankin Inneo case himmetomy was performed for the express purpose of procuring access to an inoperable surrouns of the groun and injecting the same with an ounce of gelatine con attaining 20 mg of 35,000 activity radium bromde. The injection was followed by irregularity of myocardial contractions the attack listing for thirty-sur hours. The patient returned home in two weeks apparently circle and within four months weeks apparently in good health for two years but finally died from criema of the lung secribed to mutastasse.

Post mortem examination showed the tumor to be much reduced having a diameter of sboat two and a half inches Cucatrustion had set in but had not become complete so that while parts of the tumor had been destroyed others secaped destruction but later tool, on active growth inally completely destroying the cucatrincal issue

Aside from skin lesions the writer has treated a number of cases of carcinoma, including supperable carcinoms of the nect the liver the spleen the stonach and inoperable carcinoms of the rectum. The principle of dosage to be remembered in all cases is that short doese stuminate while large heavy doses substit cellular growth. This fact has been demonstrated on seeds annotes and only inguisees. In conclusion the writer expresses his conviction of the conclusion of the writer expresses his conviction. In conclusion the writer expresses his conviction of an expression of the conclusion of the combination of so-called inoperable lessons the combination of surgery with irradiation will prove successful

JAMES T CASE

Schindler O Radium and Mesothorium Treat ment of Malignant Tumors (Eribrungen über radum- und mesothonumberapie maligner Tumor ol) Wie M B kasch 1913 xxv., 4 3 463 By Zentzibl f d ges Gynak u Geburth s d. Grengrib

The author has treated a series of makgmant in more of various kinds with large doses of radium and mesothorium reclosed in milligram fours, and gives a detailed report of has very favorable results are compared with smaller doses. Radium, and mesothorium are alike in this respect is They ray of radio active substances have the advantage over rongen rays of having a deeper effect and of being easier to handle. It is not necessary as the authorishows by a case to alsays work, with several burs asilts can be obtained by the continuous use of smaller effoss; for weeks at a time

The favorable effects of post-operative translation are shown he reconsensed the prophylatic translation of recovered cases to avoid recurrence and the Wighlam and Degrais, recommends translation in connection with surgical procedures to improve the results if be believes the treatment of operable cases should be limited to superficial timora, but that all others should be operated on first and than treated with the rays and that morphism that the results of the results are the results and the results and the rays and the properties of the results are stated on the rays and the properties of the results has taken place the rays can be used with advantage for the treatment of a proposer.

## GYNECOLOGY

#### UTERUS

Von Hansemann D Precancerous Conditions
(Uber pracancerose krankbe ten) Zisch f Geb ish
s Gradt 1913 kruv 40
B Zentralbi f d ges Gyndl, u Geburtsh s d Grenzgeb

The cause of cancer as chronic irritation this initiation leads to the disease however only if there is an individual predisposition. In order for cancer to arise there must be an inaphastic transformation in the character of the cell caused by the chronic initiation. The greater the predisposition the shorter the period of irritation necessary to produce cancer. Cancer after 60 years of age is narre because the must work in the predisposition have due before the must be a supplied to the cancer that the probability are cases where amphisus 1 lackling and where the theories of Cohabeam Therech and Rubbert are not applicable.

The precancerous diseases belong mostly to the group of chrone inflammations which lead to hyper plastic changes. Other non inflammators hyper plasts that have such a tendency are polyps hy pertrophy of the prostate gotter hypernephromates econdary attrophic conditions of the stomach with hyperplattic changes, especially in the regio of the ylorus such as follow malana syphils and into callions sear formation in the former extremities formation. Duplikely growth in the rat as found formation, pupillary growth in the rat as found formation. Duplikely growth in the rat as found in the control of the property of of the prop

It is the duty of the house physician to contribute to the cleaning up of this question by noting all factors that might lead to the development of can or uch as chronic mitations trauma, d other mitations upones. Only in this way can we see the first act the precancerous stage of which we now see only the last act the cancer in the hospital

to GR PF

Scherer A and Kelen B Treatm at of Camcer of the Uterus with Röntigen and Radium Rays (Über die Behandlung des Uteruskrebses mit tonigen und radiumstrahlen) i er mid Deutsche Vaturfer & Irise Uyen 9 3 By Zentralbi f d ges. Gynik u Gebutsh s d Grenageb

The authors report 18 cases of carcinoma which have been treated once the beginning of Febru 7 to 8 with routigen 27 s since May 8 o with combined treatment with routigen and radium rays in Croup 1 in which the treatment consisted of tradiation after operation to pre ent recurrence

the authors have late reports from \$8 of 77 cases the remainder mostly poor women from the country stopped after one or two treatments. Ten of the \$8 patients died of the others 5 are free from recurrence after three years 15 after two years as after one year and 8 after as months Compared with the earlier churcal data for cancer of the uterus down from recurrence.

In Government treatment alone was used in cases of upoperable carcanons ance the beginning of toto. In tay cases of upoperable carcanons of the tention and 5 of carcanons of the tention and 5 of carcanons of the tention and 5 of carcanons of the same and of the following cases are worthy of mention 2,4 cases under treatment for 15 to 2 years showed a remarkable decrease in the local and general symptoms in 3 cases there was entire disappearance of the nodule there were 2 cases of complete received the same of the same operable after treatment of more than three years 3 appartnally inoperable cases be came operable after treatment.

Group 3 comprised 12 miscellaneous cases among the orange one cured case of actinomycous of the ovary and one of cancroid of the mammary gland. In Group 4 a combined treatment of rontgen and radium ray, was apphed for 1 to 2 hours with weal, filter in 14 cases in the early stages with no special results.

In Group 5 there was combined treatment with orntgen and radium with strong filter and protructed application. In 4 cases of in perable cancer of the certs after four months treatment there wa a marked and in some cases complete disappearance of the tumor and a decided improvement in the gen of the tumor and a decided improvement in the gen care of the case of carcinoma of the vagina and of the care of carcinoma of the cert is are still under treatment.

In malignant tumors radium and rontgen rays hould be used together their values being about equal If there is a palpable cancerous nodule radium should be applied directly to it The rontgen ays affect the infiltrations a d metastases by a continuity that cannot be touched by the radium. The authors have been working for more than two years with pure radium carbonate corresponding to 27 mg of radium bromide This relatively small amount of radium enclosed in a lead capsule 1 3 mm thick, must be left lying for days in the vagina The hardest \$ rays are present in the irradiations but they have had no unpleasant reactions. To work with pure y rays and a lead filter 3 mm thek does not seem to offer any advantages. The authors believe that by choosing the right thickness of filter and combining the radium treatment with the vagin I and abdominal application of ontgen rays

valual le results can be of tained. The conclusion is 50 of importance in view of the great numbers of pa tients needing radium treatment and the great coat of radium and mesothorium

Carborra A : Uterus and Oraries after Ronts n norra A i Uterus and Graries atter Konig n Treatment Case of Ovarian Tumor after Hydalid Mol (Lierus and Ovare nach Konigen injustice and (overse and trans) such kontention of transferments and Apolilos and I seembly for a d Hol 10 ; 32 sometimes in the such as the such as

The author report the case of a woman who was and author report the extension as more many many and treated for 15 month [r m) one of the uters as the meners it in of entirely case and the terms as the meners it in of entirely case and the meners it in of entirely case. the ments of blo I which I turbed the patient greatly the uterus and a lucas were remo I Th might cur cierus an i a incia arer remu i an right o ary we found to be a ther as because the ut ru half lerr seed in size luring the Microment but contained a ubmucou myona. Micro the left the griaff of il cless will a the primordial follows at Jacking and telegraph connective tomers were takened and expenses as a contact to the right of righ

I licks but I I show frimord at f licks Th author 1 incl ned t attr bute the incomplete to author; methers reatment a spite of large terms of tech strategies a shire of rate consign aware to in the control of the right core test with an 151 tal location of the right core test with an 151 to wait it age enough for overly and that they I not wait it age enough for the effect of the lat series if irradiation operation was directed by the Lateralment (see

He also et arts the are of a woman who four tic awo ref wis tire are of a nomin who four week fier the rem of fa he lathin de presented ners are are rem as (any lates more a large as a numer in each suc a nor users one a parage as an orange of cother the se ( my head They an orange treumerting at 1 mg moved a laten moves to operation in a financia a interna-lla troccopical e in than I seed buinds I

es to best to rek rd with tumors ma yet of the ocurren cysl mole the hould be removed a th lutern He tel 1 th t a

out regard t the f l f t f ad whether a ben gn appus fic Technique and Result in the r

thei Uperati recinique mus sevues as les Carcin ma of th. L. t. (Operationales) à un keul I re nem y me une sevues as Weibel item b ethort sh Kent

exists m (one l 40 B) As Tall I It of 15 11 ertherm he f r non Neibel r i ri in nen li ٠. en operated on f • with 400 1 I f three who hed luring Chuhwim įπ

earching the fill wholes marı An Il carcinom 10 let ce 1

different oper two different oper two n | 14 h libe er n In Iff in mothers t th a respect th

he is opposed to too great an exten ion of the neid of operation as he has always been especially as regards the ureter embedded in a carcinoma. such rases he pref is to free the ureter from adhe some rather than to remove it for excison as the latter has shown some very but after results

Carenoma of the body of the ntern is much rarer and les malignant than that of the cervis the Dirametrum 1 almost never affected though the pelve glands are carrinomatous in 36 per cent of the expressions are continuous in a per cent of the control of the con I rom this he concludes that section in a cd from the site continues that operation hould always be through the abdome seldom in a ed the agual route bet gebosen only when there is an absolute contra indication for isparatoris Myom and carcinoms of the body of the utern are fe quently associated and in a per cent of all cases exacted on for my oma he found carrinoma of the body and 1 to per cert of cases operated on for the pasy and 19 percent or cases operated on for the latter cond tion he found my own this fact is agenticant in radiographic I treatment Metastases In the tules and orance are frequent and furn h

another reason for chussing the abdominal route With regard to the recurrence [ carcinoma sher more th a fi e cear Weiter has obtained the follow ing results Ol 169 cares 13 of 7 ? Tot cent bad car cinoma again after 6 to 7 ) rats one had a sarroma Imong the 13 cases of carrinoms there are one can er of the lu 1 num one of the brr st and one of Th microscopic I pa tures of these three enect to in microscopic the tures of these tures of carrinom ta were so different from the pictures of the original carenomita of the uterus that they can the original carenomita of the uterus that they can the original carenomita of the uterus that they can the original carenomita of the uterus that they can be of the original carenomies. cases o per cent — sere und subtel recurrences in the sail of the pel is then sa is recurrence. in the half of the pel is then has in recurrence later this the extent yet. The percentage of recurrences lesson consideral and quite stead to recurrences. from the first to the fourth year and remains con stant for exercisoms (the cereix from the fourth to th seconds are in arrown of the holy there wa no resurrence after the fourth) remona the keleves therefor the for ryical period mu t be extended to

discussed some pos t teep do of spidou nay by t teetom). Datterning after I gation of the hypografite afteries and their tat to from his pri t

flam ga tat to from his pride to the result of the more radical tot ! 1 stangers; h turnation which Ie ha been using 1 27 I in 21 th Of teres obcasted as pratts ent died a a result of the operatio al lan 4) let t of recurrenc in t of the 111 17

n the az remen l from o month th time lapsed a nee operation th t radium und ne half years II belu orenderable effect on are oma but that should me er be used in plue of speration onl

HEFFELEY Of LOA on recurrent following to post speratt ly to a sal recurrent in of his operate n

4 >

operable there being 22 5 per cent primary mortality after the operation 32 4 per cent recurrences and

25 4 per cent absolute recoveries

CHIDZ of Southsea, discussed some points in the technique of extripation of the cancerous uterus which he considered important. He laid special stress on the preliminary curetiage or cauterization of the coats of the tumor. He has constructed a special clamp for clamping the parametrium.

PUJOL Y BRULL, of Barcelona always uses abdominal total extirpation by Wertheims method and has obtained good results in secuningly hopeless cases. He puts sounds in the ureters during the operation. In all cases that recovered he has found large numbers of cosmophile cells in the tumors

RECASE'VS of Madrid prefers the abdominal method and the most extensive field possible. He believes that vaginal hysterectomy should be used only in the very earliest cases.

DICKINSON of Brooklyn referred briefly to what he had said in the report of his method concerning the two suture ligatures in hysterectomy

 Sugl K Lipoids a the Human Uterus (Über die Lipoide im menschlichen Uterus) Zisch f Geburish Synäh, 9 3 ixxi, 787
 By Zentrabli f d ges Gynäl, u Geburish d Grenzgeb

The author examined 104 uters for lipoid sub stances also for the fat content in the epithelium mucosa muscularis and vessels. He found especially in the mucosa and muscularis, but also in the blood vessels drophile formations belonging to the lipoids These were present at all ages but increased with age In three pregnant uten the fat content was not increased but rather decreased while in all cases of puerperal uterus there was a ma ked increase in the houds, which moreover showed double refraction. In rayoma the fat content of the tumor was less than that in the parenchyma of the There were solid ring shaped and sickle shaped formations mostly intracellular and in the muscle cells lying near the poles In cleven cases of different ages the author tried with various staining methods and microchem cal reactions to determine the lipe ds of the mucosa and musculans more accurately P gment could not be demonstrated anywhere in the pregnant uter there were some hoods in the mucosa that were soluble with diffi culty no closer identification was possible so the author believes that there were no pure lipoid sub stances The appearance f lipoids is the result of depressed ital function of the cells

Ritt 252 US

Som Diagnostic Errors in D ffer-

entiating Lesions of the Cervit. P. M. J.
9 4 Nu 3 By S rg. Gynec & Obst
In reviewing the work of the Cancer Commission
of the Pennsylvania Med cal Society the author
states that the society has decided to continue its
work along the educational lines as heretofore and
to this end it his enhanted the cooperation of the

W se E A

universities nurses training schools and the county medical societies in the work

As the early signs and symptoms of cervical cancer are so few the commission recommends that a thorough examination be made of the part and if any doubt earsts that the patient be kept under observation and repeatedly examined. Whenever there is bleeding and a watery discharge cancer should be thought of While the causes of uterine bleeding and discharge are many and often transient they state with all positive emphasis that any irregular bleeding or auspicious discharge should under no circumstances be treated without making a careful digital examination. In doubtful cases a microscopical examination should be made of a small nece of the tissue.

Acuminate condylomata erosion of the cervix and chancroids have been mistaken for the condition In coordision the Commission recommends that every married woman over forty years of age be examined at least once a year if not oftener.

EDWARD L CONVELL

Hitschmann F and Adler L Study of the Normal and Inflamed Uterne Mucoas En dom truss with Special R ference to Ireq dual rilemorthing from the Uterus (Inc. we terr Betrag ur Kenntas der normalen und metandeten Uterusungson Die Kin der Findometrins mit bei der Findometrin

While recogning glandular hyperplasa of the mucosa the authors maintain that it is only an in mucosa the authors maintain that it is only an in tensitial form of inflammation of the mucous membrane of the uterus characterized by infiltration particularly with plasma cells. They maintain in spite of all objections the correctness of their findings as to the cyclical changes in the normally mensituating woman hamormal changes in the mucous membrane are found as follows.

Where the period begins regularly but lasts an abnorm lly long time. In such cases in the post menstrual period small collapsed glands are found in jagged rather than straight lines with an ep the lium of several layers.

7 In rregular menstruation there is a change in the mucous membrane but it does not show the nor mal phases. The forms of glands characteristic of different phases are found together as a result of pathological function of the ovary.

Dackarge is the only one of the two of symptoms of endomentals hemorrhage pan on of symptoms of endomentals hemorrhage pan of the original training that is present. It is not possible by cuertage to so influence the reformation of the sea shoundarily provided with glands. The abundantly provided with glands. The abundantly provided with glands. The abundantly fore the currettage of such a mucosa is not the cause of the harmorrhage therefore the currettage of such a much such particular to the success of the suc

The authors maintain that changes in the function of the overy also cause bleeding in retroflexion metritis, and myoma. They do not admit local causes for hamorrhage with the exception of me

chancal irritations polyps submicrois timors etc. From their orn and other authors work they conclude (s) Cureltage can no longer be regarded as anything more than a symptomatic treatment (c) There is still some doubt as to whether hemor range in cause by anatomical or functional changes in the ovaries (3) Pain in endometritis indicates that the inflammation has passed beyond the boundaines of the uterus (4) Only a purulent discharge as a sign of chronic endometritis. They deny the value of cureltage for discharge in endometritis second the post doubten cases. They are doubting cases the post doubting the strength of the post of the p

Jaschke R T Symptom Complex of the Climac teric and Its Relation to General Medicine (Der klunakterische Symptomenkomplex senom

Beziehungen zur Gesamtmedizin) Proki Ergeb d Geb rich u Gy 4k 9 3 v 275 By Zentralbl f d ges Gyntik u Geburish a d Grenzseb

Under the climacteric symptom complex the author includes all local and general changes in the organism that take place at the period of transition from the age of sexual activity to that of sexual rest. He does not draw any distinction between normal and nethological conditions

The beginning of the menopause is not the critical point for climatene symptom may evis to 5 ear either before or after this. The modern opinion is that endometrists has very little to do with the so-called climatene hemorrhage, and in many cases there are no demonstrable changes in the appearance but according to Pankow's investigations no casual relationship has been established before the properties of the properties of the properties of the coording to Pankow's investigations no casual relationship has been established.

The author uses th term metropatha hemor hagac climaterica only in cases where there are no demonstrable austomical pathological changes, and attributes them to disturbances in internal secretion file passes on r the changes in the general organic themselves and discusses condutions in the different organic systems so exhaustively that the work is not mutable for a brief extract. His discussers of the heart and blood vessels metabolism and the nervous system are especially important

In conclusion, the author endeavors to give the stology of the different symptoms and also gives a number of valuable points in regard to sternal secretion. The gradual disappearance of the ovarian hormone causes a disturbance of function in the whole system of ductiess glands, which persons until a new balance is established. If there was the state of the state has other ductiess glands the condition is complicated the dust reasons are greater and the establaborate of a balance takes a longer time? question is complicated by the fact that the secretion of one ductless gland increases certain functions of the other glands while it inhibits certain other functions RUMEMANN

Mayer E. The Intransal Treatment of Dysmen orthon with a Report of Ninety Three Cases. J Am M Ass 914 In 6 By Surg Gynec & Obst.

Mayer reports of cases of dynament-new which were trated untransasily Ahnormal conductor of the nose were removed when present otherwise the spots of Phess in the neast mutous, which Plees terms genital spots which showed timefaction and engogeneous were customed the electronisticity or with inchloracetic and. The three descriptions of the present the contract of the present the contract of the present the present intervals between meastrual periods is usually sufficient to obtain lasting results. The symptometric present the complex of premientatinal headache, nauses and colic at the onseit of the flow was complexely relieved Of the 40 presents as and not report leaving a total of 5 cases reported on 19 were not teneved total of 50 cases reported on 19 were not teneved count of the present carried and 7 s per cont benefited.

eu Hedr Schultz

Dean, J M Operative Procedure in the Treat ment of Uterin Dusplacement. J M St M As out 2 18 By Surg Gynec & Obst

Dean discusses operative procedures employed in correcting retro ersion and prolapsus sters. He first takes up th normal anatomical position of the organ and its relations then discusses the relative uses of the kelley Mills Baldy Gillian and Alexander Adams, operations for retroversion. He ad ocates the Watkins Wertheim operation for brolansus

Dean thinks prolapse in tumors of the uterus is best treated by abdominal section, and transplant ing the cervical stump between the recti musica, as advised by Kocher For prolapse of the vagual walls follows g hysterectomy he advocates vagnot omy Eugene Carr

Donaldson H R. A Few Remarks on Uterine Prolapse J M Ass Ga 9 4 to 302 By Surg Gyner & Obst

The author pleads for more careful work in the after treatment of obstetrics His conclusions on the subject are as follows

t A hypodermic of morphine and atropine is recommended during the first stage in primiparae but he is opposed to its use in other tages and in multinate.

multiparte

3 The membranes should not be ruptured too
early in fact unless there is some special indicatio
they should not be ruptured until the bag of water
presents at the vulva

3 When forceps delivery is necessary there should be a more cautious and deliberate use of instruments than is frequently the case. A change

from long to short forceps in completing a mid forcers delivery is recommended. 4 When a laceration occurs a careful pains

taking asentic repair should be done The patient should be cautioned against lying on her back during the entire confinement

period, as this position encourages retroflection which is usually the first step in prolapse 6 The use of a tight abdominal binder which

also encourages retroflection should be forbidden A primipara should be kept in bed for one month and a mult para at least three weeks

8 For a period of at least six weeks after the patient is allowed to lea e her bed she should be free from any unusual exertion standing upon her feet for any considerable length of time or the per formance of any social duties whatever

9 An examination of the mother should be made in about two months after labor to ascertain the condition and position of the pelvic organs especially with regard to a lacerated cervix and whatever treatment may be found necessary should be promptly resorted to EDWARD L COR ELL

Byford H. T: Choice of Operations for Retro-version when the Abdominal Cavity is Opened Ch cag W Recorder 19 4 Ext By 5 rg Gynec & Obst

The author considers the Alexander operation for shortening the round ligament to be theoretically and practically the best but when the peritoneal cavity must be opened he operates as follows

The ligament is grasped near its cut from the internal inguinal ring and pulled towards the median line until it is taut. A slender 20 day catgut thread is passed through it bout a centimeter from the internal ring and again about five centimeters from its uterine attachment and tied. The edges of the resulting loop of ligament are sewed so as to form a double cord the end of the thread being left projecting beyond its free end The peritoneum is separated freely from the abdominal wall at the lower end of the incision laterally as far as the internal inguinal ring. With the point of a pair of slightly curved hamostatic forceps the pentoneum is punctured from without inward about a centimeter messally from the ring the thread is grasped and the loop is pulled through the puncture until all of the sutures are extraperatoneal With a per manent suture the loop is attached at a point about a centimeter from its base to the under surf ce of the abdominal wall as near the inner ring and as low down as possible without risk of punct ring the epigastric or femoral artery The pulsating arteries are easily felt and each step of the operation should be guided both by sight and touch The loop is twisted half way around on its log axis a disewed with catgut along the abdominal wall toward the median line The same is done on the opposite side with the other ligament and the bdomen a closed in the usual way \ small pessary is introduced to be worn for two o three m nth EUGENE C RY

Rissmann P: One Hundred Cases of Ventro fixation of the Round Ligament by the Authors Own Method and 100 Alexander Adams Operations with Buried Silk Sutures Without any Recurrence (Uber oo Ventrofivuren der Lieg rotunds nach eigener Methode und über oo Operatione nach Alexander Adams m t prinzipieller V reenkung on Sexionfaden oh e Rez d ) Zisek f Geb rish Gyndh 10 3 lvs 606 By Zentralbi I d ges Gynak u Geburtsh s d Grenzgeb

Rissmann's method consists in the fixation of the round ligsment cut 5 cm from the uterine end to the abdominal wall with three silk sutures using Pfannenstiel a transverse incision of the fascia and somal angesthesia. He thinks it is important to use sell, rather than cateut. He has never seen any of the bad results that are commonly feared from buried silk sutures His results with this m thod have been favorable he had only one death from extensive He never had symptoms of ileus and adhes ons He never had symptoms of ileus and secondary herms only once Pregnancy and labor occurred in 17 cases without complications of any consequence The indication for Alexander Adams operation seems to him to he in the possibility of correcting abnormal positions under spiril anesa modification of this operation suggested by Rissmann is the superimposing of the fascia He had too cases without recurrence or hernia

R Lineau

Sigwart W: Suture of the Great Pelvic Vessels in the Abdominal Rad cai Operation (Über die Naht der grosen Beckengefasse bei der abdommalen Radikaloperatio) Zitch f Gebutth w Gynds 9 3 lexiv 374
By Zentralbl f d ges Gynak Geburtsh s d Grenzgeb

Since the first abdom nal extirpation of the uterus for carcinoma by I reund in 1878 we have learned after spl tring the broad I gament (Bumm 1905) to lay bare all the pelvic vessels from the point of bifur cation of the iliac to the obturator and the superior vesical, and to a o d them as much as possible in cleaning out the parametrum and removing the glands If injury does occur the resulting hæmor rhage may be controlled not only by ligation but by suturing th vessels

Bundles of carcinomatous glands are hiely to be adherent to the walls of the veins, and so it is often difficult to avoid injuring the hypogastric vessel and the external iliac vein though the external iliac artery can almost always be avoided A ligation of the hypogastric or even of the common that year itself need not cause a long continued insufficiency of the ve ous outflow from the pelvis because of the formation of collaterals to the external thac year as well as to the vena cava through the vertebral eins

The ligation of the hypogastric artery also has no serious consequences while the superior vesical artery should always be spared if possible in ligating the uterine artery for fear of interfering with the nutrition of the bladder wall. The external iliac vein is frequently the seat of large packets of glands

4 100

but the danger of gangrene of the leg from hysting at was greatly arregerated by Braun (1871) and fold (189) acrosting to field hystion of this arrival to gangrene of the leg mondy 5 per cent of the cases

Brain and Visiler have shown that with sufficient arterial pressure a x-nows collected circulation I almost always created through the observer on the gluttal sense and the uberulanceous series of gluttal sense and the uberulanceous series on the posteric superior price of the leg yet in injury to the class: ) as nature hould always be un! traken This may offer great technical of ficulties; if the patient is compulent source and the tweets he deep down un the pels, or if weed is injuried not not to me dispersulations.

#### ADNEZAL AND PERSITERINE CONDITIONS

The antern I sections of the ovary 5 derived from the corpy laterab here extract of the latter and not of the enture on any bould be employed. Wrong the therepeates in lication contain Instantance and inhibition of its function are can anon to all otherwise the use of the tract is nollified. The accessor, sympt ere following the administration of the Ireship desectated copy incieum as land form by Burnaran are ablier to sail all blonds a recomp, sympt was following the recomp property in the composition of the Ireship desectated copy and the property of the Ireship and the contract are even being the contract are even lent to got of the Ireship bod and c n it will a dose to be gin a three time for the Ireship and the open and the contract are even lent to got of the Ireship and the open and the property of the Ireship and the open and the property of the Ireship and the open and the property of the Ireship and the open and the property of the Ireship and the open and the property of the Ireship and the open and the property of the Ireship and the open and the Ireship and the Ireship and Ireship and Ireship and Ireship and Ireship and the Ireship and Ir

The author rejoint a case in which menetra uson the menetra to the heat r) or pu luteum extract aft r blat r l ain go ough extoms unsecured a mpt m of pr m t n m no process extends after t at the second of the menetral parts of the second o

Hirsch J Freatment of Disturbances of the Internal Secretion of the Owner with Glan duorin (1) de Beh addung on Schopen der uneren Schreit, der Ubapen mit (Anduoum) Bed M R A A o 1 B 20 By Zentrald ( d. gen ( ) salk (seburtih d. Germageb

By Zentrathi i d ges ( youk ( seburtsh d German's The author used a pecual struct i the crasty called glandworsh which he prepared from his practical expensions with this remedy be believed that the symptoms of either the premature or nor mal climarters can be lawrathly influenced by it lie tested a 5 cases successfully and 3 unactors fully. Dy menorthers due to hypofunction of the onares in a crued by gladuour in it 3 out of 3 cases. In oligomenormor, and antenormor is reported only one cliume in 6 cases one case out of two of ternations lump pregnancy was fa orably affected the results were fourbtful in purely vulva in pergen at an 1 tone pregnant women hypereneurs and prevention of the control of the control of the prevention of the control of the

Schickel G The Influence of th Orarjes on th Crowth of the Breast a Study of in ternal Secretion (Der Lindias der Grapen auf d Wachs in der Brustleises Betrafte zu Lebe der inderen Setzerung. 20ch J. Gratif in Gratif

tots live 132 By Centrallel I of gene Cynale w lachurch a d Gerand

Schickele reports cases of swelling of the breast in new both girls of first menstruation of breast development in little firls in different classes of "ociety of swelling of the breasts during men true tion and of bloody discharge from them and a case of men trustion during pregnants. He also reports ases showing the influence of castration on the development and secretion of the mammary claude atronby of the glands after castration, and tells of he own and other authors any I experiments with tiract of the corpus luteum placenta and testicles. He also tell of he experience in regard to myometral glands the possibility of developing milk secretion in the breaks of a primipara by placing an infant at her lire I near the end of pregnancy the swelling of the brea to after ca tration and the symptoms I the menopause He says that the influence of the ovary and a many respect of the corpus lateum on the growth of the mammary gland should be deter m ned as far as possibe it is prolable that other lands with intern I sceretion have a vicatious effect

Varildo P. R. Experimental Research on Changes in the Oracy from Repeated Indecious of Adrenalia (Lapenmentale Uniterahuman aber Farstock extederunces molec wederbeiter Adrenalmen mytamagen). Zeel 2017 Opull 9.3

hut the need further proof

HOPSTÄTTER

## H Zentralid ( d ges Cymair Geburrah a d Grenzgeb

The many contradiction in the results of experitions are regarding the functional relation between the orasins and the surv renal glands set the author to study aperime tally the effect on the orasin of female deep of subcutaneous injection of adreas has He wed normal pregunant and estimated dopand found that there was a perceptible decrease t the size of the ovary and on microscopical examination this was found to be due to degenerative processes in the specific glandular parenchy ma There was a marked increase in the resistance of the animal to adrenalin poisoning during pregnancy while that of the castrated animal was noticeably de creased Therefore there must be an antagonism between the cortical substance of the suprarenal gland and that of the ovary

Evier Autoserotherapy in a Case of Malignant Papillary Cyat of th Ovary (A townsherapse bes enem Fall you mal goem papillarem Ovanalcystom) Bei li n II chasche 10 3 L 2008 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

Evler operated three years ago on a patient with a mahemant evistoms that could not be removed radically on account of extensive adhesions. After emptying out about ten liters of a turbid flui I the cyst still contained about 4 liters accordingly a small opening was made and the cyst sutu ed into the subcutaneous connective tissue so that the con tents would be poured out into this tissue. In the course of the following three years the patient had to be punctured three times but her general condition which was very bad before the operation im proyed to a marked degree

kosmak G W: The Rôle of O arian D sease in the Production of Sterility \ 1 St J Mes

Surg Gynet & Obst

In this preliminary contribution to the study of the rôle of ovarian disease in the production of sterlity Kosmal, has drawn some tentat ve con clusions based on an analysis of 45 cases of his own and other surgeons He believes we have much to learn of the physiology pathology and treatment of sterility in somen Though malformations and malpositions are important among the causative factors he believes their importance has been Oterestimated

As to ovulation he says In respect to the time at which it takes place in relation to the menstrual periods we are still more or less in ignorance and whether each mensional period is necessarily accompanied by the discharge of an ovum cannot be stated conci swely. It is presumed a follicle ruptures at each period, but whether this occurs in each over, alternately has not as yet been demon strated nor do we know whether successive follicles ripen and rupture during successive mo the in a healthy over; when the other is diseased. The only presumpts e evidence pointing to this fact is that in the presence of a cystic ovary which does not functionate menstruction and apparently ovulation go on regulari

on regularly He has further been impressed with the idea that although the menstrual function is apparently not inhibited in such cases a follicle does not always rupture on each occasion for in many instances where such discuse of the ovary is present sterility is a frequent accompaniment

He has been led to believe that marked cystic degeneration of the ovaries is the central and important factor in the production of sterility in certain instances, and he thinks it probable that the irritation and disturbance produced by the presence of such a condition would act as a bar to fertilization

The author's conclusions are that the question of steribty in an otherwise healthy woman must depend on an aggregation of factors and that the entire pelvic contents must be subjected to careful study In a certain proportion of cases however removal of a diseased ovary undoubtedly contributes to in creased function in the other as evidenced by im proved meases and the greater possibility of subse avent neemancies

It would appear that sex is not dependent on the side from which the individual ocum is derived and that whether the left or right is removed the propor tion of ecres in subsequent children is about equal

Daude O Sterility in Women; and Its Treat ment by Baths (Uber die weibliche Steril tat und thre Bad rhehandlung) Fort chr d Med

B Ze traibl f d ges Gynak Geburtsh a d Grenzoeb The author discusses first the general and local

causes of sternity and considers cases caused by anemia and chlorosis gout, diabetes and chronic torications as suitable for bath treatment those due to local gynecological causes, balneo therapy can be used in mild degrees of infantilism hyperasthesia of the genital organs and especially in chronic inflammatory processes in the uterus and The baths that have the most extensive use are the carbonic acid chalybeate baths which are recommended in almost all cases and which can be combined with massage and other physical meth ods of treatment Brine baths, sometimes combined with the carbonic acid chall beate ones can be used in inflammator, processes but they are to be avoided in states of excitement. In such conditions the au thor prefers mud baths at 36 to 38 degrees, which have a quieting effect Besides full baths sitz baths sponge baths, and packs are recommended

RUBEMANN

E A BLLLARD

nolds E. The Principles Underlying the Successful Treatment of Sterility in Nomen. Revnolds E A 1 St J Med 94 m

B) Surg Gynec & Obst

Reynolds divides the sterilities he proposes to consider into the three following classes (1) Those due to persistence of underdeveloped or infantile organs (2) those due to altered conditions in the secretions of the genital tract and (3) those due to failures of ovulation

He dismisses the first group with the brief statement that except for the renewed development which sometimes follows early marriage they are hopeless and no treatment can be recommended The second and third groups are discussed at length

Very slight changes in the gential secretions are enough to incapacitate the apermatation acidity enough to meapstance and operations are fatal to its normal action Increased viscosity of the its normal action increased viscosity of the viscosity of vi

in many cases Au or any of these preventive fac-tors may and often do produce sternity in women haying no symptoms of it health aving an ayunpuoma or in nearth The author believes there are at least two con dates and overy which inhibit of idetion and are minally temedraple At (1) betatiget could literal

nament remember viz (1) persurent corpus integral and (2) distention of the overty by retention cysts,

and (2) distertion of the overy by retention cytts, mustly with chickening of its capsule.

As to the state persistent copyrise receils; cases in which large persistent copyrise through subject to the copyrish of the copyr extract area in every case the operation was recurred by the recent appearance of pregnancy in a pre-viously sterile woman grank (see Marshall Jolly and others pane made extensine studies of the any and orders have made extensive studies of the consensus of the state of the consensus o corpus tuteum and Reysolds believes the consensus of common as that the presence of the corpus future and the presence of the corpus future that the future of the corpus future that the future of the corpus future of the corpus parts of the future of the corpus future of the corpus

the corpus luteum is a standard and successful Concerning overnes distended by retention cysts and with thick capsules the author believes they and with times captains the author occurs they seldom ovalate at any rate they seldom contain corpora lutes. Though it might seem probable

corpors tures in order to the care and the balances of the corporation of the care and the balances and the balances and the care and the balances and the care and the balances are the care are th these cyals, the lact is that in Keynorus especial tender and has sarely been the case and he believes ence auch has rarely need the case and he beneves this operati e procedure has added largely to his Myer the cause for postple secretions is to pe success in the treatment of sterility

When the cause lor beaute secretions is to be found in general conductions such as appreciately found in general conductions such as appreciately found in general conductions with the secretion of the conduction of the conductio general medical treatment. When the booking secretion is the result of any of the many forms of secretion is the result of across the many forms to secretion and the secretion is the secretion of the secretion and the secretion is secretion. comparate a massic of secretal instincts these habits must be set strength. Both purelence subsystem secrety may be bacterial and both indicate dissi-ciation, and this must cover every crypt, and the must cover every crypt and analysis. rection, and cass must cover every crypt and read of the vegas Insufficient with powdered protago

of the yagua shakunanon ning powocree protation nith the patient u the knee chest position is the position of the patient up to the knee chest position is the position of the patient up to the more enterest Programs is meneciate Operation of the prediction of

procuou Il examination under anxelhena shone enlarge ment of porp assures of each well dekice or be ment of nota grantes in every man neglecture has an abbitty of even one tube t is probable that about pabinty of even one tuce t is propagie to at another dominal incision will be necessary commus mersion an necessary ine success discussion of the house, in his of the ceanx and house, and the ceanx and division of the sail not streetments of the cervis nivision of coe au. For attachments of the cervicing thus gradually helping conditions by improving

dramage of removing a penastent corpus the true ample consuming of expression of the latent is small expression of the corpus and suture of its base aft r trum ug the corpus and suture of its base aft r trum ug the

The treatment of retention cyals varies in their number size, and meating. The keypole to the whole subject of the treatment with their number size and location of stern ty seems in the author to be in a recognition or stem ty seems to the author to the to a recognition of the fact that fertility is dependent on an extreme of the fact that fertility is dependent on an extreme normality in so far as the physiological potency of normally in so say as the physiological potential as the cause is contained a memority so extreme a distribute a pick are sufficient to upset it are to be to require great choseness of ouncervation. If A Buttish

Schottmüller II. and Barfuth W. ( Eti logy of Purufent Disease of the Adment Ge. 1, 10,000 of description of the Adment of the A

Because of the extreme pathogenicity shown by marketone micro organs ms in puerperal lever after delivery and abortion the authors attempted to determine how frequently these bacteria cause local bringer diseases of the female genitalias purment unseases of the remain benieves the examined 89 cases bacterologically removing the May with a sterile syrings and making cultures for abroble and analroise bacters. Statistics are Even sporting that the number of cases of queese of memory areas of queese of security areas of the security a

seven sources that the manner in cases or considerable and the schees caused by snakrobes is considerable and the state of the adness caused by anaerones is considerable and that the number of cases of salamettis caused by gonococci se much lower than has bitherio been ought Chucally the anatrobes are of interest because thought

the theory and the color backle that give the ran as the they and the color backle that give the ran as fell door. The authors believe that the infection. takes place not from the intestine but from the tages place not from the innestine of cases has succeeded in finding the same anaronic bacteria in succeeded in finding the same anaronic bacteria in succeeded in finding the same anaronic bacteria in succeeding the same anaronic bacteria in the endometrium as in the pus from the tubes. The the encomeration as in the pur from the coors the could not always do this they think is because the germs in the curvical chief had attendy drabbeated on petu of extended with other found

disappeared or been energown with other forms before suppursion began in the tube. They exclude infection from the blood although in the blood are the blood at though in the blood are the blood at though in the blood are in the same burstens were bound in the blood as in the same burstens were bound in the blood as in the the same pacteria were found in the blood as in the the same pacters were found in the blood as in the pus Televery abortion and especially criminal operations presented by the push of the infection In incomment of the push of operations precuspose to the infection its some cases. I occurred genorefuces the authors sound, so the past of th not gonococc but and robe backers, in the pus from the tubes they thank that this was not se cossarily on correct interior of the such above the Pure someonic interior of the such above the

searny ou to secondary unocuon Pure gonococcal infection of the tube shows the best prognosis, for gonococci som the in the pus best prognosis, for gonocucci som one in one par There are no certain means of differential diagnosis. To deter between servic and gonorrhueal processes. To deter

Tuere are no certain means of oligenmust margnones between spyle and ganarrieral processes. To deter from the greatest of the control of the cases in annexative years of positive and the duration of the superities appearing decrease and the duration of the superities appearing decrease should be made of the decrease appearing to control of the superities of the super

Mussatow N A Treatment of Chronic Conorrheral Salpingo-obphoritis by Intra Uterine Injections of Argentrumine (Zur Frage uber de B handlung der hromschen genorrhoschen Salpingooophoritiden durch trauterine i j ktoonen on Argentzmin Zurhold i Graba 193 2 XXVI 1470

By Zentalki I d ges Gynak u Geburch a G Genageb The author reports the results of the treatment of chronce indistribution of the adners with intense injections of a per cent argentamine. Of a cases treated from December 16 1911 to April 1 1912 5 were po poalpars and 12 double salpings oophorectomy Of the 5 cases of py o-alpars there was subjective recovery in all cases no pain on cottus and return of the orgam objective recovery in 3 cases Of the 12 cases of asplung-coophoritis there was objective recovery in 17 prom. [pmt] there was objective recovery in 17 prom. [pmt] summary coof results 126 cases were treated with

The treatment causes an active hyperæmia of the whole gential system. Normal menses are often increased slight ones are not affected. The results were excellent in Zwiefels acses also only 5 5 per cent of them being operated on even 1 chuding old cases with severe adhesions. Even ca et that had previously had one or both tubes removed by laps arotomy were markedly improved. \*\*Uzerra\*\*

#### EXTERNAL GENITALIA

Pozonyi E A Case of Primary Carcinoma of th Vagina Operated Upon by th Dorsoperineal Route (Über einen dorsoperineal operett Fall on primarem Schedenkrebs) Grade R nåschl 913 Via 667 B) Zentzibli f d ges Gymlk u Geburtsh s d Grenzgeb

The author describes the case of a forty year-old woman a \I para with two abortions for a year she had had a foul smelling discharge with no pain but accompanied by emaciation On examination a nodular bleeding tumor was f und in th upper two thirds of the posterior vaginal wall. There was extensive infiltration f the rectovage al septum Microscop.cal examination showed a bisal celled carcinoma. The entire genital apparatus a d the rectum were removed by the dorsopermeal route the rectum was amputated f r abov the rectal fold - the sphincter could not be spared because of the infiltration drainage to the peritoneum was established in front of the igmost colon and a acral anus was formed Six month later there had been no recurrence and the patient s weight had increased o kilograms Because of the connection between the lymph ties of the posterior vaginal will and those of the rectum when cancer occurs in the vagina all of the genital organs and the rectum should be removed G UN LE

Hedén A. Colloidal Sulphur in Treatment of Gonorthesa (Über & Bodalen Sch. f i gegen Gonribte). Dermetel li & chr. 9 3 1 2 003 By Ze traibl f d ges Gynth. Geburtsh a d Grenzgeb

The author used collo dal sulphur in treating to cases of gonorrhoza in women The treatment con as ted of irrigation of the urethra taxes a day with a one to tax oper cent solution the cervar is touched truce a day with a to per cent solution and in cases of involvement of the volvo vaginal glands a a per cent solution as injected into them. In irrigation of the blaider there was often severe pain. The treat ment of gonorrhera of the uterus often had to be given up because of irritation. The bactenical effect is considerable but not so great as that of the albumin silve combinations.

#### MISCELLANEOUS

Schick 1 G: The Nerrous Symptoms of the Normal and Premature Menopause and Ther Relation to Internal Secretion (Denero Sen Ausfallerscheinagen der normalen und fruh ze uge Menopa sein har Bezeitungen vinneren Schriton) II de d Ass of 10 3 434 By Zentralbi f d ges Gynak Gebutts a d Grenzgeb

Schickele reviews all that is known on this sub ect and while he gives his own opinions he also sets forth those of all other authorities. He regards these variable symptoms as toxic caused by over secretion of the glands antagonistic to the ovaries Since the ovaries unquestionably have the property of decreasing blood pressure a rise in blood-pressure would naturally take place after they cease to function and this can actually be observed in most cases The degree of this increase however is not in proportion to the severity of the disturbance. The fact that rise in blood pressure and symptoms of the menopause do not always appear is explained by the fact that other glands take over the function of the ovary of course constitutional differences in in d aduals also have their effect. The details of this interesting work must be read in the original. Ther apeutically he recommends ovarian extract and is skeptical as to the value of implantation of a foreign healthy overy and also of autoplastic transplantatron SEIGE

Cla k J G and keene F F The Relationsh p Between the Urinary System and Diseases of the Female Pelvic Organs. S f G p c & Obst 9 4 zv By Surg Cynec & Obst

Symptoms referable to impaired bladder function play an important rôle in the clinical history of many pathological conditions of the female pelvic organs Because of its intimate relationship with the surrounding genatian the bladder frequently participates in the adjacent pathology whether this be in the f mo finepolasm infection or displacement

The influence of police pathology is by no means immede to the bladder but may directly affect the reten and kidneys the resulting lenons being due to mechanical blockage or infection. On the other hand disease of the urnary system my exist con calcutally with that of the gential tract the one being suttrally independent of the other so far as etiology is concerned. Hasty at an accurate methods of examination may prompt the correction methods of examination may prompt the correction

of a me minor in me logical abnormal ly when the leason productive of a mptoms lies abely in the Lidney, or user hence leading of the unnary system may occur either as sequetic or complications of disease of the female pelvic organs it is important to determine their exact insture before resorting to operation.

The solution of this problem cannot be guased from dependence upon symptoms alone whether the disease be primarily of the ladney or of the pic cogravit the subjective manifestations common to both are often huntred to wested by mprions. The textificatilly of the one to the other can be determined only by a thir rough examination of the blad for survives, and Judops. A Toutline cytocopical of the common textification of the desired common textification of the properties of the control of the contr

ibuff ks: Furnit Tumor (Lottonor) /ceitralbi f Gyalk , 19 3 sees 11, 1291 B) Zentralbi f i ges Cjalk u ( lustah s d Greaze)

I tumor the size of a man s head had been grad instrument as an edition sie 3 l garrel ob clieu woman of 15 with serious anomalies in the skeleton from an old fibre us ostites \ dergnose of malignant tumor was made an i as the patient was rapidly growing worse isparotomy was performed. The tumor was found to be an normou ly dilated sig mould sure filled with m we fferes an ithe mall intestine wa found to be very much a neracted Because of the bid undition of the nation the flexure was I rought forward and as mu h of the faces a pos 11 rem est through a lengthwise inci ion the intestine was utured in three layers and the abdomen level Ift 1 56 hours there were signs of irritation of the perstoneum and the forms tion of new tumors ther for the at lomen was opened again and the upper Lambert suture was found to be cot red with a limy ubstance. This segment of the flexure was I awn I tward and the nest day w opened with the thermocauters and several masses of faces removed. Mer that the intestine began t fun tion not the patient gradually recovered In this a the megacolo was caused by the extrem heart shape I narrowing I th privice inlet a cm being the longest diameter fifte years ick es b d caused hrun; con t pation

There were three powed trees in the say of operation on this case was ( ) Increasing rimary sature of the intestine of the interesting of the intestine of Resection of the large ratestine ( )) ormation of an artificial arms. The perstain of choice would be a been resection of the often and choicing off of the promountery but the as responsible on account of the patient on of the Research

Drueck, G. J. Genical Pistulæ in th. Lemul.

My Surg. Cynec & Obst.

The author briefly discusses the question n sil its phrees. He recommends the following operation A flap one quarter of an inch larger than the opening is marked of on one of with a kind? The vesicous annal septum is split and the vegical muces i flet leaving the vesicul sail and arother issue gatact. This direction is carried to without one cighth of in unch of the futures edge and the remaining thesis is used as a hinge to lay the flap over the opening the a patch. The size and thape of the flap must be becremand in each case and mut be large enough to cover the opening.

The next step is to spl t the vesicovaginal septum aroun i the edge of the fistula opposite the side of the flat thus making anoth r flip beginning at the edg of the fi tula and hinging about three eighths to one half such back of the opening To fasten the flams in place fine catent is inserted about onequarter of an inch from the edge passed through the connective issue deeply down to but not through the mucosa and curved back and out again on the same surface about one-eighth of an inch from the edge Passing over to the caugh half of the flan of the opposite side the peedle is entered in the fresh cut surface passed loun to but not into the vesical mucous membrane then turned and brought out agus on the cut surface back in the angle of the wound It provies a broad surface for approxi mation and lifts the wound edge above the level of the blad for wall

the dast ver was

In I (thous opening is the closed but the flap
of vagind mucon remains to be fastered. The
current at in prived through the free relief thatflap
carried over the word, and into the fresh units
or the oppose used where it is passed into but
through the vaginal will and brought out again
the vaginal writes. The statement out again who
the vaginal writes. The statement of the
histories of the vaginal will and brought out again
when the vaginal would and transforces the
spices the vaginal would and transforces the
which closes the fixtul. The two rows of attaches
are each in the line of axis of the
graph, but are not
supermapped on each other. Where the suitures are
concreted but before they are used the bladder should
be throughfully washed put. Pows is LConsent.

Areu fuche 5. Röntgen Treatment in Cynecology (Fur Frace de Röntgenbehadiong in der Gynalolyne) il u sod il et is 10,33 in 1882 By Zentribl i d gen Cynals & burtsk a. d Grennyth

The author calls attention to the good results obtained from rotates treatment in measurement of the control of

### OBS LLI RICS

## PREGNANCY AND ITS COMPLICATIONS

Meyer R Inflummation as a Cause of Ectopic Decidua or Paradecidua (De I stai dang al Enisteh ngsursa he ektopischer Decul voder I ara decaiva) Its h f<sub>b</sub>Grbart h n C alt to 3 lxxi 200

B Ze traibl f d ges Cynak u Geb rish d Grenzgei

In a series of cases of ectopie f mistion of decidual from the literature and from his on a bulindant material. We per shows that decidual formation out side the nucuo membrane of the body of the uterus as in the ovary the ligiment the tube the cerviand in cervical polyps as well as on the second momentum of the polys are well as on the second momentum and adenonyous and one time the second membrane of the polyinfluents in change in the tis use and that the effect of hormones on cert a itsue, under these curumsances becomes end in where it woull not other yet tale place.

Grusdeff W S Latra Ut line Pregnancy (I 1 go Beobacht ngen besüglich der I atra 1 mngravid tht) Pr & I 1 ack 19 3 483 By Zentribli I d ges. Gynal. Geb 1sh d Granzgeh

The author gaves his experience with the procedure inextra uterine pregnanty also. His comes to the conclusion that a positive reaction; to be regarded practically as a chance symptom of prignanty which appears many times but often be not

He discusses bilateral extra uterin or gnancy and gi es th macroscopical and m croscop cal findings in an operation for it in which both the tubes a d the appendix which was also in olded were re-moved. The right inded in a each which contained a w ll-def rmed placenta there wa 4 cone shaped thickening in the isthmus of the left tube which contained clots of blood M croscopically there was a marked difference between the two in th right tube the till were well preserved while in the left they had lost the repithelium and coust ted o ly of a stroma showing hyaline degeneration. In only one place were there a few well preserved villi marked decidual reaction could be seen in the wall f the tube. It was case of bilateral tubal pregnancy which had begun on both sides at the same time but had been terrupted sooner on the left

The third question the author takes up is tors on of the gra id tube \(^1\) case operated on by him showed \(^1\) with the torsio \(^1\) hematosalpina which but against difform an bort \(^1\) a the amount of more properties and reserved bleed ag in the lumen and wall of the tube \(^1\) Rapiture \(^1\) the wall which was already \(^1\) per extracted by vills \(^1\) din take place because the

perstansis that resulted from the torsion caused adhesions of the wall of the tube with the overy and the anterior fold of the broad ligament REAUDE

Duff D: Notes on a Case of Latra Uterine Preg nancy in a Rudimentary Falloplan Tube. La cet Lond o14 cla vi 71 By Srg Cynec & Obst

The author reports a case demonstrating that f tal hamorrhage may result from a small apparent ly unimportant source of bleeding within the abdominal cavity The nations when seen had for several b urs had severe pain over the lower part of the abdomen and had passed her normal menstrual period by three days only Her temperature was 9 I and the pulse 110 Liparotomy disclosed a con iderable quantity of free blood within the The right appendages were abdominal cavity I und to be absent and no trace of an o ary or tube could be found. On the left side a mass rounded and fluctuant was felt and this at first was thought to be the gestation sac of an extra utering pregnancy The tube ovary and blood-clot were removed and were subsequently examined but nothing abnormal could be detected The prtient ded about fifty hours after operation

A post mortem examination showed that the right ovary was absent and the right tube was represented by thick fusiform stump set on the top of the right cornu rather than in the normal line of the tube and th upper surface of this showed an area of quarter of an inch in diameter This blood clot body appeared to be a tubal oyum Microscopic sections of the thickening at the right cornu showed this to be a small deformed tube containing frag ments of an early ovum - villa plasmodial masses and the characteristic wall of an early implantation cavity - obviously this was a case where the ovum had m grated from the left side. The cause of death was the hamorrhage which took place from the small essels in the wall of the malformed tube At the operation the site of the harmorrhage was not apparent. In a similar case the gestation area should be excised with a wedge shaped inci ion and the edges statched together D C BALFOUR

B tner A J Let plc Pregnancy Ill ts W J
9 4 xxx 4 By 5 rg Gynec & Obst

The etology frequency and symptoms of tubal pregnancy are discussed from the author's view po nt as observed by him while engaged in general practice supplemented by findings of the operating room liberatory and autorys and based on conclusions from his personal observations together with a review of the literature on the subject.

He believes the primary etiological factor of tubal pregnancy is explained in the two early etages of embryonic development in the morula and the 512 empryonic development is the mornia and the blastula stages and adds that the mornia tage is normally required for tubal or extra uterine exist ence while the I lastula stage is normally intended

Butner states that eccycles occurs much more for intra uterine existence only frequently than is generally supposed by the average clinician and that one eng ged in a general practice composed of all classes ought to see and recognize at least one ectopic pregnancy in every one hundred

conceptions com ng under his observation Ti e cases are reported with one d ath from internal hamorrhage and one postaneous recording by formation of an abscess in the cul-de sac which wa later becharged per rectum. The remaining three cases were operated and recovered one wa tubal abortion and two tubal rupture

Genter II Premature separation of the Normally Situated Placenta (Verz life Los ng d r normal situated Placenta (Verz life Los ng d r normal sitzende Placent) D et l St Patersburg

1913 By Zentraibi i d ge Cynsk u Geburish d (reasga) The statistics collected by the author from the

hterature show that premature separation of the merature snow that parents occurs in 0.12 per cent normally started placents occurs in 0.12 per cent normally started placents occurs in 0.12 per cent. Trauma of cases his own cases show o 12 bet cent is rarely the cause but more frequently the cause is is raisely the cause our invient and unitate of the shortness of the umbilical cord and rupture of the membranes st il more important cases are hydram mos tems tran verse presentation narros pelvis and too strong pains still more important re lidney and too strong pains star more important resumely changes with or without simultaneous changes in the placenta and placental decidu In the di 500 3.5 Sometimes there are no demonstrable changes in the placenta and uterus frequently there is anomic the placenta and userus frequently there is anomic infarct and homorrhage into the placental tusing the placental tusing and dominant tusing the placental tusing all the placental tusing and dominant tusing the placental tusing the placental tusing and dominant tusing the placental and degenerative changes and sometimes there are inflammatory changes in the wall of the uterus sometimes rupture of the pentoneal covering from overdistension of the uteru and acut and bronce Idney affections are hown 1 a series ( cases The changes in the 1 er are like those in lamp-

The mortalit for the hld a found to be 8 6 per cent in the cases from the lit rature from the author some c es 8 per nt th curresponding authors a una company of the state of the figures for maternal mortality wire 3 i per cent and ngures for material muchanity " (2) per cent. The earlier the separation takes place the agree the prognous f mother and hild after one worse the prognosis i mother and had after delivery there is danger the morning from alony in treatment i mponing is uncless. The indications an treatment i supporting is useres 1 in indicational vary with different ases. Rupture of the mem vary with a netrate as computer or the ment in severe cases ag nail of abdominal cesarean in severe each ag its of it severe harmorrhage section is immediate at the 1 secret mention and from atony and conserval e treatment is refused. extraction of the uteru hould not be too long delayed

Glin ki L. K. The Hypophysis and Its Changes puring Pregnancy (Über de Hypophyse in alige mensen und shre Verlade runen hirrend der Schwa-genchaft) KI dereit ich sehr 913 zz, 709 genchaft) KI dereit ich sehr 913 zz, 709

742 760 By Zentraibi [ d ges Cynak Geburtsh d Grenageb

The author gr es a detailed histological description of the hypophysis in 80 cases including men and non pregnant pregnant and puerperal somen In the poorly developed nervous part of the hypophysis he author could not demonstrate chromafi a substance he thinks the nervous part represents a substance ne timbs the nervous part represents a rudimentary sense organ. The greater physiological importance of the glandular part is shown by its greater richness in tim, walled blood vessels and the

mract with the giand cen The glandular cells are dailed into two groups contact with the gland cell the chromophobic and the chromophiliac and the latter are divided into cosmophile and basop The counophil cells are most numerous, the base le next and the chromophobic least numerous During pregnancy the hypophysis increases in

size and weight not because of increased blood sare and weight not because of increased moon supply, but because of meroscopical changes in the glandular part which are most marked at the end of pregnancy and shortly after delivery or pregnancy and shorely and appearance of a large number of clear chromopholac cell

Ullush does not believe however with Frdheim utimasa uses not bettere nowever and runtim and Stumme that these are specific pregnant. edl but that they represent a hyperplana of the ord nary chromopholic cells. He thinks these ord n'try enromonaute ceus are tiques uned changes are due to increased functional acti try of the overy and that the hypertrophy of the hyper sis explains some of the clinical symptoms of preg and explains some of the times a symptoms of the face swelling of the face and scromegaly ORCHANE.

Scherer A: Heart Disease and Pregnancy (La us the control of the c There were 57 cases of uncompensated heart

legons in 17 250 deli eries for the past ten 3 cars Twenty two of them were delivered spontaneously del er) was accomplished twice with forcess eri eri was accompanie was a llowed by Arrion and est action in head presentations three times ther was ersion and extraction with placenta previa nd tran verse position fi e times extrac tion in breech presentation twice perforation the artiful I premature del very and eight times induction of abortion There were it deaths 6 of meacures or specimen There were it ucesting of series had series the others had kidney and lung complications

New M and hell r F The Function of the Liver During Pregnancy (Z Funktion is Leber in der Graviduss) if sites f Gebru k G is

93 X 383 By Zentralbi f d geo C, ak u Geburtsh d Grenageb

The authors report the determination of sugar in the blood of norm I pregnant and non pregnant. OBSTETRICS 513

nomen Levulo urin was tested in to pregnant wom n in only 2 of the women was the ad munitration of 100 gms of levulose followed by marked reduction in the urne Frammation of the ugar content of the blood by Tachau's mod ification of knapp's method showed there was a certain variability in levulose assimilation during pregnancy but they did not decide the question of how far the function of the liver and other glands was involved F CEPROSA

Lirabath R: Hypertrichosis in Pregnancy (Uber Cra id tätshype (richosis) Gy al-B Zentralbi f d ges Cynal. Geb t h s d Grenzgeb

Harabath as well as Slocum Begar and Halban counts increased growth of hair a one of the external symptom of pregnancy. In a female dwarf rat dog the under ide of whose body is ordinarily almost hairless he observed a growth of hair in two succeed g pregnancies e-pecially on the abdomen and three or four months after deh ery the abdomen was agun hairless as before. In a female pug bairless pot from itch disappeared during pregnancy and reappeared again after delivery

He gives as a reason for this hypertrichosis the hyperemia of the skin that takes place during pregnancy comparing it with the effect of linseed poultices and loss not believe that it is due to a

decreased secretion of the ovaries

W rd F V: Report of a Case of Papillary Cyst adenoma of the Overy Complicating Pregnancy Il hnem Moth 04 lix By Surg Gynec & Obst

The author reports the case of a null parou woman age 26 who was operated on for the abou and apparently recovered. The main symptom were abdominal pains mostly on the left side a tumor afterwards being found on the left side

Because of their pecul ar mode of invasion fresh foci developing upon surrounding areas of the perstoneum until signs of pressure an I obstruction occur and in late cases the pelvis and belomen becoming so blocked by the papillomatous masses that it is impossible to remove them the author advocates the early removal of 11 ovarian co to as soon as discovered and in conclusion states that early radical urgical measures should be instituted in all papillomat of the ovary complicating preg nancy for the following reasons (1) The tendency of the growth to increase in size and during preg nancy the liability of fresh implantations upon the surrounding peritoneal surfaces (2) the possibility of some of the accident occurring to the cyst itself such as rupture or tortion of ts pedicle (3) the dan ger of the tumor complicating labor by interf n g with the normal mechanism by blocking the birth canal and (4) statistics show that the operat on is attended with no higher mortality dury g pregnancy than t the periods War D Pitt PS

Puech P and Vanverts J: Tumore of the Ovary and Pregnancy (Tumeurs d 10 a re et grossesse) Ret f a de med ei d eh 1913 z 243 By Zentraibl f d ges Gyn k u Geb etsh d Grenzgeb

A collection of 1 316 cases observed since 1886 show d dermoids 27 per cent soli! tumors 2 5 per cent. Ovarian tumors decrease the probability of pregnancy In 12 5 per cent of cases miscarnages or premature delivery resulted from complications. size of the tumor or adhesion I regnancy seems to increase the size of the tumors, only when they are malignant the reports show torsion of the pedicle in 17 per cent of cases in contra t to 5 to 14 per cent in non pregnant cases forsion of the pedicle is especially apt to occur in small abdominal tumors rupture of the cyst in 3 5 per cent generally fatal the same is true of suppuration. Pelvic tumors of the ovary interfere with birth by causing displacement of the uterus prolapse of parts of the foctus secondary insufficiency of labor pains or rupture of the uterus Birth is made possible by pushing aside the tumor or flattening it out or occasionally by delivery of the tumor through the torn vagina

Suppuration or torsion of the pedicle occurs often during the puerperium The tumor may con ceal the pregnancy or the pregnancy the tumor Tubal pregnancy pedicled 1 brous retroflexion of the pregnant uterus or hydramnios may cause e rop 1 di gnosis Exploratory laparotomy may

be d ne if there are dangerous symptoms Th maternal mortality at present is only 6 per cent in contrast to 31 5 per cent in 1861 Abdom inal tumors e more dangerous during pregnancy, pelvic ones during deliver. The present rate of infantile mortality during pregnancy is 135 per

cent while formerly it was 83 per cent In the treatment of abdominal tumors during pregnancy ovariotomy is indicated during the first half for the sake of continuing the pregnancy and may be performed at any time for apid growth of the tumor mal gnancy torsion of the pedicle rup-t re or suppuration. For pel ic tumors the tumor may be pushed up ovariotomy may be done during the first half of pregnancy always through the bdomen During delivery in case of abdominal tumors, forceps version and artificial dilatation of the o are permiss ble Pelvic tumors may be pushed up with the pit ent under attesthesia in the knee elbow or Trendelenburg position Cysts may be punctured Incision of the cyst from the vagina is danger us as it may cause inflammation suppura t on of the cyst or peritonitis Ovariotomy followed by spontaneou delivery or forceps may be done For extensi adhesio s or impaction of the tumor esarean section followed by ovariotomy is indi-dicated though this may be contra indicated by malignancy difficulty of extirpation or bad con dt n of the pat ent

Artificial del ery f th placenta is indicated only when the tumor inte f res with its natural deli ery Laparotomy is dangerous during the puerperium and should be don only when abso-

1

3

lutely necessary Lutein cysts in conjunction with 514 hydatidiorm mole which are not infrequent gen erally disappear spontaneously

Winter: Active and Conservati e Treatment of Educaçue (Akine und Lonservati e Eklamyecke Industrial (Iosatich f Gebarit & Grade 9 3 By Zentralii [ d ges Gyad, u Gebartth s.d Creugeb

Winter has recently treated the cases at his clinic exclusively by blood letting and Stroganofi's method in order to make a comparison with his preceding method of immediate delivery. Thus far he has the impression that this comparison will not result favorably to immediate delivery though he still though he still favorably to immediate delivery though the still through through the still through through the still through through through the still through through through the still through through through through the still through t thinks this is superior to any other method for very recent cases. He believes that the results obtained by early vagnal exsures section would be more ny early vaginal caracteria accumi nous favorable it it were possible to group the cases accu ravorance it is were passione to group the the duration rately as bround proposes according to the duration of the disease But this can hardly be done for the first attack does not mark the beginning but a rather advanced stage of the disease. He thinks it is a mistake to reckon the purperal eciampais with the early deliveres as Lichtenstein proposes These have already passed through many hours of introduction which for some unknown reason has not manifested itself sooner Winter believes the

He chooses from his material the cases in which the pains have a very harmful effect first attack began at the very beginning of labor and from 92 cases gets the f llowing results 8 cases in from 92 cases gets and a moving cosms of cases in which labor was not interfered with 40 per cent mortality ro cases del vered after the os was d lated 30 per cent mortality 3 cases delivered late in th second stage by incision or metreurysis 25 per cent delivered by createran section immediately after the beginning of the ecl mptic attack no mortality

He believes that fr the early cases exserean section is still the best method of treatment, while for cases where a long standing information has made the results of immediate delivery uncertain Strogs noff a method should be preferred

Rongy A J A Prelim mary Report on th Treat 

This report based on series of four cases of severe pernicious omiting of pregnancy and two cases of threatened eclamps treated with placental serum According t the h torus four cases showed marked unprovement. The author's treat ment is based on the f. llosing theories. 1 The toxicinas f pregnancy are secondary to

some poisonous protein substances circulat is in some possessors provide sunstances circular ig in the maternal circulation, which h we their origin in

The composition of feet I serum albumin the product of conc ption different from th t t maternal blood serum

albumin Under varying pressure in foctal and maternal systems fortal serum albuman enters the mother's blood by dialysis It acts as an antigen and provokes the formation of antibodies When fortal serum enters the mother's blood the union of this antigen with the antibodies lends to anaphylac this natigen with the natinouses seven to anapon use the symptoms of which eclamplic convolutions are one. The everity of the toximia will depend upon the amount of these substances in excess of the antibodies

mer P Bacteriological Examination in Februle Abortion (Bakteriologische U teruch ungen beim feberhalten Abort) Tisch f Cy &

ungent memerinanten naurt) 21568/ J 1/9 et a Geberi k 1913 Izzav 48 By Zentralbi f d ges Gynak u Geburtch d Crenzgeb

Forty five cases of febrile abortion from the second to the fifth month were treated actively with 36 uneventful recoveries 80 per cent 2 slight complications, 44 per cent 3 severe complications 66 per cent and 4 death 9 per cent Example tion of the secretion did not give any results that could be utilized clinically Streptococcus hemoly ticus in the secr tion makes the prognosis somewhat more unfavorable among 11 cases showing dreptococcus hem lyticus ther were 2 death strepacoccus usem tyricus ther were 2 death a flow death is possible with non pathogenic bacteria. not be scretion and unevential recovery with at the secretion and uncertaint recovery eath the blood once does not prove anything but finding them repeatedly indicates an unfavorable prognosi anong 6 cases in which bacteria were repeatedly Among o cases in which manceria were found in the blood there were three deaths I severe complication and 2 uneventful recoveries chnical rather than the bacterological findings are decisive. If the infection has avolved the uterne substance its blood and lymph caseds and the substance its blood and lymph caseds and treue surround ag them the prognosis is doubtful The question is not how to treat but when

The question is not now to treat unt some.

The uterus must be empired before the disease hab had time to extend Propagation of the bacteria by mplying the uterus need not be ferred Among the control of the second of the second propagation of the bacteria by mplying the uterus need not be ferred. or manying the uterus need not be seried. Among five cases in which the blood was found sterile be fore emptying the uterus bacteria were found in it fore emptying the uterus matterna were round in afterward in three cases but they became sterile sterward a timee cases but they occame sterile again after 24 hours. If the infection has passed the boundaries of the uterm emptying the uterus s contra indicat d and early aginal total extr

pation is t be recommended

Werner P Technique and Results of Simultane-man Aborton and Steritization in Pairmonar Tuberculosis (Erfolgs and Truck L. &, ensult pro-table) to the control of the control of the both protection of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the c

93 tx ii 38
By Zentrabl I d ges G, nak Geburtch d Grenzgeb

During the past two and one half years the above Junng the past two and one half years, the above operation has been performed at the Chunc for the west performed to the Chunc for the performed and the performed and the performed to the company and said west week and fifth mo th of preparancy and had act e tuberculosis of the lungs or laryex or had act e tuberculosis of the lungs or laryex or mactive pulmonary tuberculosis with poor general condition or other complications The method of choice in such cases is vaginal section emptying of the uterus and suture of the cervix pushing aside of the bla lder and resection of the uterine end of the tube preferably without encroaching on the uterus. The procedure : easy and its advantages are that it accomplishes both purposes at one time avoids laparotomy and the mutilation is slight Atony of the uterus may be avoided by an injection of pituitrin or glanduitrin-ergotin There was one case of death from hymorrhyge resulting from perforation of the anterior uterine wall the operation was successful in all other cases recovery occurring after 8 to 9 days There was no imme diate mortality from the tuberculosis. The mor tality after a year was 4 per cent and of 25 women who had had the operation performed more than a year before one died of tuberculosis o felt thoroughly well, while 4 were troubled with evere cough and expectoration BIENE 23

Indwig F: Treatment of Abortion (Die Abort behandlung) P ki Erg b d G b ri k u Gy ik

By Zentrafbl f d ges G n L Geburtsh d Grenzgeb

Lu lwig reports the material of the Bern Gyneco-

logical Clime for the past ten pears Of 406 abor tomo outside the clime 223 were alchine 27 febrale of the former 4 per cent showed slight ness in temperature duning their further course Of the febrale cases, the fever continued in 5 cases after the excausino of the uterus only one showed severe complications there were no deaths Of 326 charal abortions 240 were afterine 86 febrale of charal continuous 240 were afterine 86 febrale of complications. Of the footile cases the fewer disappeared promptly after excusation in 65 x 4 and slight fever afterward 4 had severe complications and 3 died the mortality was 10 per cent

The treatment sactive digital, and instrume tal evacuat n of the ut rus conservative use of the cureitie in recommended Besides early operation thorough disinfection of the g intalia with functure of todine is import to bacteriological indicatio 5

are not con idered

# LABOR AND ITS COMPLICATIONS

Sellh im II An Impo tant Difference between Norm I Bi th and A tificial Deli ry (ther times were titche U ter-kined swische til liche Fibrid ng)

Bei 1 bei

B) Zentralbi f d gr ( nak (scb rish d Grenz reb

The birth power (this expressio better than crubia e poner) cons it in an element it it molds the foctus and an pulse element. The latter acetis force of the feet form all addes and from behind in art final deliver; the first element is lacking the individual parts of the feet is a ring no pressure everted upon them as hown by sche-

matic figures in head and hirech presentations. The head is really separated from the shoulder by for come and the state of the country of of t

Jard ne R The Retraction Ring as an Obstruc tion in Labor Wed Pres or C 1914 evu 32 By S rg Cynec & Obst

In the autho s opinion the retraction ring forms so rai inches higher up than the internal os and he di ides the cases into three groups according as the retraction ring forms (1) In front of the presenting head (2) above the presenting head or (3) in broch presentations

In the first class the dagnoss is made by feeling the head well above the bring of the pelves and find ing the head cannot be pushed down the ring may be felt both through the abdomen and the vagina in these cases if the child is alive he advised to the constraint of the child in a live he advised to the constraint of the child is deal craimot. The constraint of the child is deal craimot recognized early before the mother is exhausted in the second class, if the patient as thu and on

and the section Cases, it the pattern it from a midalphation the ring can be felt internal examination application the ring can be felt internal examination on passing the fingers above to the control of felt in front of the shoulders. The author again advises examinates can be control of the child is alive and says it will be necessary to davide the ring in order it deli er the head. If the child is dead craniotomy, should be resorted it.

In the third class he advises that the prinent he naristheired and the phy icans flatterned hand be passed in front of the chil until a foot is reached which is then swept inwards over the front of the child and brought down. When the key i brought down traction should be made upon it while an as I tank keeps up firm pressure upon the fundu of rele of 1) weeping them caught they are child and the after com in heal insus he don't will child and the after com in heal insus he don't will in the usual way. The prognous is as good for the moth r ind child as in the a erige breech case, that requires in I deln'y Way D Pin tires.

Bill ted F Frolapse of Both Lower Extremities Beside the Head (Vorfall be let U treatremitaten neben dem Kopi) Z Italii f Granki 1913 Zava 1928 Bi Zantralbi, i d gea. Gynák u Geburtah a. d Greusgeb

The patient was a 30-year-oll primipara with normal pelvic measurements. I ourteen months

previous the had had a miscarriage in the three month. Two days before admission to the hospital the membranes had unguired, but she had can timued to wall, about the house after admission to the hospital she had strong pains for 14 hours and internal exam nation aboved prolapse of the left foot which on being drawn down to the twiley was drawn back. Further examination showed the head in the posterior position between the two feet with the total duretted forward Latraction was easily accomplished with Brenss forceps the child, weaking 3.5.5 gam was dead

Bisted calls attention to the ranty of such an acrobatic position and cites ton Franqué sho mentions the prolapse of both feet heade the head as one of the racest of obstetroid complications. The cause in this case was thought to be the early rupture of the membranes and the subsequent walking around as there were none of the other probabile causes pre-ent such as multiple prog nances, hydramnico, narrow pelyas two preg mances, hydramnico, narrow pelyas two preg hance to the proposition of the property of the present of t

Gilbert H Subcutaneous Emphysems of the Face Neck and Chest During Labor A: i /: V Gas 1913 xx 1 55; By Surg Gynec & Obst

Gilbert reports a case of the above occurring in a primipara with delivery of a stillborn child by forcers followed by the recovery of the mother This cond tion is cry rare and the general view held is that the condition arises from rupture of the air searcles at the root of the lung. The air there fore escapes underneath the pulmonary pleura into the anterior mediastinum and so on underneath the cervical fascia up over the neck and chest. There are however some who believe that the condition to due to injuries to the respiratory tract higher up for example, in the mouth and traches. Judging by published cases the patients were invariably primiparse There were in all cases considerable straining efforts made during the second stage a considerable number if cases pain is complained of and is ery often situated about the region of the smenth or cighth rib. The outlook is good the patients invariably recover If the pain is excessive during breathing the affected side should be firmly trapped as in fractu ed tibs War D Promi es

# PUERPERIUM AND ITS COMPLICATIONS

Schweitzer B Prophylanis of Puerperal Fever and the Bacteriology of the V gina of Pregnant V men (2 r Prophylane de Inchenbettiebers suglench en Bestrag ut Bakt resloge der Schedt Schwangerer) Leipza Hirsel 9 v By Zentr Bi ( of ges Gwalk Geburth) of Grenzech

Puerperal fever from auto infection with bacteria from the vagina is recognized although p evious attempts at disinfection of the vagina have not succeeded

Some experiments were made with 0.5 per cent instructs and under bacteriological control. The secretion was rendered normal in 8: 5 per cent of the cases in three cases only after 50 to 90 days. The cocci gradually disappeared and rods appeared Only three cases showed streptococci till delivery after c5 to 25 days of irrigation. Lactic and has a cerama bacterioad power and the controls showed cerama bacterioad power and the controls showed or a second or control of the control of t

Therefore the method is adapted for the prevention of purepreal fever. The necessity for such proph) lains and the question of spontaneous infection is taken up and a case of death in the Lorentz claims described, together with some others from the with the budgey of the backlin vagnatis. Pure cultures on grape sugar agar showed confluent transparent colonies. There was facultative analysis of the backlin vagnatis with reducing substances. It is closely related to other lactuceact form ag rod shaped backlin. Among the streptococt related to the tractuce and related to the closely related to the colonies there were the closely related to the tractuce and the colonies that the closely related to the tractuce closely related to the streptococcus and lacture.

PERM AVE

Zweifel P: Prophylazis of Puerperal Ferer Caused by Spontaneous Infection (Du Vehâtung der durch Spontanut ktom erursachten Nodenbettfeber) Zentralb f Gynde 1913 rutvi

By Zentralbi f d ges Gyntil. u Geburtsh a d Grenzg b

In spate of all methods of dissifection pureprail ever has not yet been conquered lionever Zwenfel thinks he has now found a means of accomplishing this Lactic and I remet a s part of the normal content of the vagins and pregnant womes with an abnormal vaginal secretion have very little and Therefore in such women prophylactic impairing a for each state and were arried on for ten days. Under this treatment women with abnormal vaginal secretions were not troubled with levy rule of theme the treatment of the days. Under the treatment women with levy rule of the contract of the contract

Zweifel ir ports a case of a woman who died of puer peral fever and another who had a very severe case of it without any examination by the m d ife he also cites cases reported by Poten The old saying that danger always comes from outside is not true but auto infection is not the right term it is a spon taneous invasion of germs. The practical conclu-sion to be drawn is that the midwife should always report cases of abnormal vagunal secretion and the physician should treat them moreover in case of death from puerperal fever the midwife should not at once be blamed but all the conditions in the case should be carefully examined Krewanas

### MISCRULANROUS

Frankel L Ovulation Conception and Dura tion of Pregnancy (Oculation Konzeption, und Schwingerschaftsdauer) Zisch f Gebrik u Gyald 1913 lts: 07
By Zentralbl f d ges Gynāl u Geburtsh s d Grenzgeb

The changes preceding pregnancy and menatruation are caused by the corpus luteum therefore ovulation mu t precede menstruation corpus luteum can generally be found to days at most before the beginning of menstruction exact day of runture of the follicle cannot be deter mined differences in the sexual cycle and individual factors cause sheht variations. The author found among 10,000 women 100 who conceived after a long period of amenorrhoes 71 of these without any menstruation intervening 35 after a single menstru ation. He concludes therefore that impregnation follows immediately after ovulation not after the menstruction that follows it

If these figures are regarded as decisi e pregnancy begins a considerable time after the last menstrua tion and is duration is shorter than it has been considered heretofore. When the date was counted from the last menstrual period the greatest poss ble error in computing the age of the ovum was 4 weeksthat is, the time between the last period and the first one that was mused since the time of ovulation is taken as the beginning of pregnancy it is reduced to the interval between ovulation and menstruation

Fetzer M Studies of Metabolism in Pregnancy Based on Experiments on Pregnant Animals and their Fortuses, on Diets Rich and Poor in and their recuses, on these stern and root in iron Studen uber den Stoffhaushalt, der Ora vid tat nach experimentelle. U ters chungen de Verhalte s tracht ger There od her Frilcht bet usemrecher und einenarmer E pahrung). Zit k f Geberich Gy ek 10 j lvz 54 By Zentralbi f d ges Gynak. Geburish d. Grenngeb

In rabbits which receive an abundant amount of ferratin during pregnancy there was a marked in crease in the iron content of both mother and fortus but when iron was withheld from the mother there was a decrease in the ir n content of the fortus. It seems possible therefore to exercise a certain qualitati and quantit tive effect on the fortus through the mothe a diet. In an male from which ron was withheld iron was t ken from the mother a tusues t supply the foctus, t such an extent that the mother sometimes suffered a deficit this however was only carried to a certain degree enough being retained to carry on the mother's vital functions If iron was withheld to the point where the functions could not be maintained and iron still given up to the fortus the fortus died in

Abderhalden E. and Fodor A. Protect ve Fer-ments against Wilk Sugar in the Blood Se rum of Women During Pregnancy and the Puerperium (Uber Ab ehrlemente Blutserum Schwangerer und Wochnerunen, die auf Milchzuck er gestellt und) Mu chen med Wehnschr 1013 1 1880

By Zentralbi f d res Gynak u G burt h s d Grenzgeb On the artificial addition of milk sugar to the blood protective ferments which are capable of altering the disaccharide appear in the serum Therefore the authors instituted experiments to determine whether similar substances are to be found in the blood serum of women during pregnancy and

the puerpersum

In 12 pregnant women at different periods of pregnancy they could demonstrate no protective ferment against milk sugar. In only one in the tenth month milk sugar was decomposed Like wise among to patients during the puerperium the serum of only one decomposed luctose. The examination of the serum must be supplemented by that of the urme BENARIO

Yeumann J Principles of Nutrition During Pregnancy (Ubc Emahrungsprinspen wahrendd r Schwangerschaft) II en med II chnich ogg Ixu

By Zentralbl f d ges Gynal. Geburtsk a d Grenzweb

Factors of importance in the development of the foctus are inheritance age of the woman number of preceding births and for its size the age of the ovum at the time of impregnation. The nutrition of the mother abundant or limited fare, has in general no effect on the weight of the child. The author therefore denies the value of the Prochow nik diet. There is however a deposition of iron calcium and magnesium in the foctus blood from the umbilical cord is richer in these minerals than that from a retroplacental hematoma. It is well therefore to have an abundance of mineral salts in the diet during pregnancy as well as of fats, for the latter are retained by the mother for use during the period of lactation. In the second half of pregnancy it is well to limit the albumin in the diet because of the danger of eclampsia THRENBERG.

Cramer II Hydramnios from Deficient Absorption of Amniotic Fluid (Hydramnon floige mag lad Resorption des Fruchwassers) Hos is start at the deficient of the Hydram of the

Under normal conditions not much urine is passed by the fortus into the amniotic cavity. The am

motic fluid is normally disposed of by swallowing The large quantities of fluid swallowed by the fortu pass through the intestinal wall into the fertal circulation and from there into the mother's system If there is any hindrance to swallowing by dramnlos may arise This is why hydramnios is so frequently found associated with stenous of the resonhagus of duodenum unencephaly se ere hemi centraly or extensive fasures of the sound cord where the swallowing reflex is disturbed by defects a development of the nervous centers. The author describes a case of extreme hydramnes in which the child died after a few respirations. The retreating lower jaw was pressed frmly against the posterior wall of the pharyna there were no lunus hairs epidermal scales or any constituents of the vernix caseosa in the infant's intestinal tract lurther cases of this sort would confirm the correctness of his theory FREE BERG

Thierry It : Flectrical Irritability in Pregnant Women (Lutersuchungen über die elektrische be-regiarkeit bei Schwingeren) Zi b f Gebi ich

Gradt 1913 ferm 75 By Zentraldl I d ges Cyraik u Geburtsh a d Crepageb

The author carrie I out experiments on the median nerie of the right arm in 110 women 20 of whom were pregnant. The results or as follows (1) On electrical examination of a pregnant women in the minth and tenth months she found an increase in the electrical writability in 80 per cent (2) The increase reached the highest degree shortly before delivers in 60 per cent of the cases it was within Stantzing a limit but in 11 per cent it reached the height observed in t tany (3) I ten in women whose nervous tritability was not increased during pregnancy there was an increase during delivery hermans) into a man the arritability ferreased and gradu ily disappeared if as

Erdheim 3: Hypertrophy of the Hammary and Accessory Brea t Clands During Pregnancy (User I as abittabyretrophic der H mire und der Aktroportabra Brandigwa) il en h H charche latz Etti

By Zentralbi i d gen Gynni u (sebuttsh d (renzzeb Abnormal hypertrophy of the mammary glands

may be due to puberty or pregnancy. The author reports one case of each kind. In a guest old gorl one year after the beginning of menstruction th brea to developed rapidly to the use a man s brad and the body became greath emacuated. The growth stopped spontaneously after a year and a half and the emacration gradually desappeared Hypertrophy furing progna , begins with the pregnancy and the growth t much quicker The following case t described

1 as year old patient had become pregnant three years before and abortion was a fuced because of the enormous growth of the breasts and an accessor) breast gland on each ide the swelling then I upneared Hath the beginning of the see ad pregnancy

there was an excess e increase in the size of the breasts with great pain and abortion was performed again with the same results. A piece was excised and microscopical examination showed that the attricture was like that of a normal gland in a pregnant woman

Thenty cases have been reported in the literature seven of which were examined microscopically Internal treatment and compression have been un successful, the radical treatment being the removal of both mammary glands which has been done se eral times Arimcial abortion i also justified if the patient is too weak to bear removal of the be arts or if he refuses it on account of the deform its which would result

Heynemann T: Position of the Heart and Disphragm During Pregnancy Herz and Zerrch-I listand widrend der Schwangerschaft) Ziele f Geberisk is Graaf 1913 it iv 854 By Zentralbi f d ges f vrak is Gelburish d Greanerb

it the end of pregnancy the disphragm is practically always displaced upward. The amount of this displacement varies in the author's control nectures from to 4 cm the a crage being 2 tt cm I his causes a trans erac position of the heart and a head at the entrance of the great vessels. In by cases the transverse immeter was increased or to 3.2 cm with an a erage of 3.70 cm. There are marked in lividu 1 differences but it was not possible to distingu h two different types according to the size of the thoracic and abdominal cavities The d placements of the heart and disphrages generally become noticeable in the eighth month of pregnancy rawing an increase in the heart's work at th' nd of pregnancy flowever the respiratory mos ments I the disphragm which are apparently little affected support the heart a its increased work. The high position of the dis phragm probably ha the same flect a it secures a bester empt ng of the heart which result in an increased olume of blood at each beat. The cause of the acc dent | murmurs during pregnancy is the These murmus bending of the pulmo re riery are freq ently fronger in deep expiration or appear only at that tim and they d appear when the puerperal patient or somet mes even when the pregnant patient tan l up The heart and disshragm therefore are n a position to meet the incre sed demands of pregnancy with incressed activity. The author been ations tend to confirm the conception of pregnanty as a physiological process Br cr

Nagy T Malignant Degeneration of the Epithelitters of Waplaced Chorismic VIII (Ubermalgee I atantung der I p theisen primät verschieppter Chor-It true us brane des malignen Chorson ome) rpathetiomes I & f Gynak 9 1 430 By Zentralbl i d gr ( ) nik inchurtah d ( renzech

When the pith hal origin of malignant choroethelioms ad the apacity of the horiome est thel um I r malignant d generation were d covered choro-epitheloma was classified as a malgnant epithelal blastoms. Later unevitagations however re-caled peculiar properties of the epithelium of the choronou rull. Groups of feata cells endowed with a capacity for uncontrolled probleration, were found in the material tissues at a great distance from the placents. This invasion of choronou rull is peculiar in that the cells show different physiological reactions and staming capacities so that it is diff cult to distinguish a pictual and Langhan a cells but Meyer demonstrated the relationship of these cells with those of the placenta. The physiological epithelial cells of the choron differ very much morphology to a characteristic morphology tould

Malganary of the enthelial cells of the vills can be diagnosed only with the aid of chinical examina hour by Marchands method but united symptoms are arrected for operating thereference is often proposed and are affected to the state of th

The author describes a case of his own which showed signs of malignant degeneration on account of which he removed the uterus through the vagina He gives a detailed description of the histological specimens from the case their sign feature and the possibility of the chono ic ville undergoing malig mand degeneration.

\_

Broca, A. Francus, R. and Bize Periosteal Dyspiasia and Multiple Intra Uterine Fractures (Dyspiase p nostale et fet res t fraudiples) Rev derik p 9, 3 alog By Zentalb if d ges Gyale u Gbutsh d Genegeb

The authors distinguish three groups of congutal bone defects we congenital nextle schon droplasa and what they call pernoted dysplasa. The latter is datinguished from schondroplasa by the fact that the compact substance of the daughyses of the long bone, clavicle bones of the hands and feet and nos, as replaced by spongy tissue without any shonomality in the ossistaction of cartilage They describe such a case in a child sax weeks old. They describe such a case in a child sax week old extramites and memorical fractures of all the estimatics and memorical fractures of all the virtual transfer of the substantial of the substantial transfer of

Ahlström E Momburg Method (Übe die A wendung der Vomburgischen Methode) Vord med A k o i Ivi By Zentralbi I d ges Gynak u G b rish d Grenzgeb

The uthor go es a detailed report of 7 surgical and 246 obstetrical cases from the hterature and two

obstetrical cases of his own as a supplement he gives experiments on rabbits and dogs with registra tion of the blood pressure while the constriction was

applied He concludes that Momburg's method of com pressing the acrta by tying a rubber tube around the abdomen is very effective if properly used. The disappearance of the femoral pulse is used as a control and it not only causes cessation of harmor rhage directly but it also induces contractions of the uterus which overcome atomic hamorrhage and hasten the delivery of the placent; often manual extraction of the placenta can be avoided. There are some disadvantages attending this method for stance great variations in the blood pressure heart failure arteriosclerosis and nephritis must also be looked out for There is danger of injuring the intestine in surgical cases and sometimes pain is caused but this can be overcome with morphine Especial care must be taken in removing the tube on account of the sudden fall in blood pressure It should always be done in the Trendelenburg posi tion with the legs raised and bound with tubes or elastic bandages, which should not be removed until some time after the abdominal tube has been removed K HOTTMANN

Samuels J Three Cases of Development of the Foctus Outs de the Chorlon (Uber extrachonale Frucht twick! g im Ansch! ss in dres Falle) Szeck f Gebert k C. åk 19 3 km 69 B) Zent lb! I d ges Gynak u Ceburts d d Grenzgeb

Development of the ovum outside the chorion is rather rare but it has a clear-cut clinical and anatomical picture. It is similar to the cases that have been described of development of the embryo out side the amnion and is distinguished from it by the stage of development at which rupture takes place In development outside the amn on the disturbance takes place before the amnion has become adherent to the chorson that is before the beginning of the third month of pregnancy Development outside the chonon occurs before the parietal and the reflex decidua have become adherent but p obably after the adhesion of the chorion and amnion in the third or fourth month of pregnancy Rupture in the later months with u disturbed development of the embryo inside the membranes occurs after the adhesion of the parietal a d reflex decidua that is in and after the fifth month but it is not markedly distinguished from extrachonomic de velopment

The chuscal picture called bydororhoes graw adam or decduals 1 a rupture taking pleve in the later month of programacy often far above the internal os The author proposes instead of this term to use rupture of the membranes in the later months or bydorrhora with undaturbed development of the fortus made the membranes. The cause of the rupture has been sought in endogenous and enogenous disturbances it is probably sometimes due to artificial interruption of the

pregnancy. After the ammonic fluid is discharged the birth does not take place because the utreas adapting fixed to the new conditions shows a cort of indotence such as is observed in muscal labor and muscad abortion. The study of gross and nucroscopical greatment does not give any definite information as to swhere the fluid in produced information as to swhere the fluid in produced information as to swhere the fluid in produced ment in the produced ment in the produced ment in the produced intermediate produced in the p

Arukenberg R.; Can Retroplacental Blood and Blood from the unbillical vein be fixed to Diagnoss Vasterual and Lond Stynlish got to Diagnoss Vasterual and Lond Stynlish got Lisation Reaction from Betroplacent person even bit zer Diagnose fer muterible bes kindlachen Stynlis durch de Wasserman Vedece Brack spic Komplemento holmograthure vermedat; spic Komplemento holmograthure vermedat; spic for risk u Grait tots Inter 43; By Zentralli I d gas Gryals u Gelartsh s d'emaged

Serum from retroplacental I lood cannot be used alone to determine the Wassermann reaction and decide whether the mother has syphilis for it gives a positive reaction in 30 per cent of apparently berlthy women. This percentage increases in cases of pathological delivery to 10 5 in protracted labor and in abnormally severe labor name, to 46 r in eclampeta intra i rium and post partum and in difficult or abnormal delt ers of the placenta without syphili to 55 5 Inxethesia of the mother feter or loss of blood to over 500 gms in the post partum period to not noticeably increase the number of positive reactions with retroplacental blood. If retroplacental flood is used and the reaction is positive another to thousal be made with blood from the arm years. It would not be necessary to puncture the arm sum in the negative cases. The positive reaction with retroplacental blood is prob bly due to the presence of albumin lipoid

Blood from the unblufual vein of healthy children of healthy mothers as a rule; suce a negrute Was sermann reaction it is poutive only in hereditary sphilis never it jupilis is not present in eclarities of the mother in premature delivery, neutracted labor harmorriage or other ab normalities post partium not yet in deeply suphy are action or stillness of the suphy are the control of the suphy are the

combinat as originating in the placents

all these cases in ecrodagnostic examination of the child blood for rectarded several times at long latter al. The negative Nassermann with unblood in the hold of Lang, it to a positive when extracted placents as myred with the blood in only 5 per cent treat of the rases in the other og per cent it remains angestire. Verther in the reaction changed by maring ammost, fluid with the blood. In spire of the limitations mentioned above 1 bood from the multiple of the way to be seen to see the contract of the service of the service

Wassermann test for syphilis of the new born and its we is recommended in all cases in hospitals and in those in private practice where there is any suspicion of syphilis in addition to the seriological testing of the blood from the veins of the mother's

Schenid H H: Increving the Size of the Peivia by Revection of the Promontory (Dier duse nile I'mestrung des knochemen Beckens) I'm sensil d'ai che hain fort à u Arie Une 1913 Dy Zentrill I'd ges Gynal u Geburth s' d'Grazech.

The author reports eight cases from the obsteined clanes in France in which received of the promository of the control of the promository of the control of the control of the which was demond by the control of the which was the control of the con

from the bones being slight.
In section of of the right cases the operation was
performed in connection with exsurean section for
relative midications one of the even died of pertionits, which was to be attributed to the ligarationy
rather than to the resection of the promotory. The
eighth patient had already had a consurean section
and a sulfborn child and in the fourth month of her
thard premains; the resection was performed. At
child which because of a strassverse personal
child which because of a strassverse position and
prolapse of the tord had to be leit even by version
and extraction the head was easily del version.

This are proved for the first time that resection of the promo niory secures permanent increase in the zee of tho prive. The peration is therefore the only rational treatment for narrow pelvi

Frankel L. Delivery After Uniting a Double Utern by Operation (Gebut mach operation teremgung despetter Gebarmutter). Berl Un Hobs-

P. Zentabl (4 ger Cynak u Geb rith d Creusph A patient had had three miscarringer pre-mature dil vene of non valuble chillren. Examination showed displacation. If the genital organization showed displacation, it has genital organization showed displacation. If the genital organization shows a serious and the serious shows a serious in the again. The patient was serious abox as serious in the again. The patient was very amisons to ha e.a.f. ing child and as neither of the serious sex expanded of producing one has one serious to the again the serious sex expanded of producing of the serious se

# GENITO-URINARY SURGERY

# KIDNEY AND URETER

Mayo W J: Accidental Injuries to the Descend ing Portion of the Duodenum During Removal of the Right Kidney J Am If A s 1914 km By Surg Gynec & Obst

The anatomical relations of the retroperitoneal portion of the deodenum are such that this organ may be injured during operations for the removal of the right kidney Such injury however can only occur if there be infiltration about the pedicle which has caused close adhesion to the duodenum The duodenum in its descending course overhes the pedicle of the right kidney and a considerable portion of the lower half of that organ on the inner side As this portion of the duodenum is retroperitoneal and more or less fixed in position one can readily understand how the accident might occur under such circumstances The exact relationship of the duodenum to the right kidney depends on the mobility of the latter organ which his somewhat lower than the left Lidney and is more or less movable normally

Injection and ulceration of the pelvis and second ary involvement of the connective tissue in the pedicle leads to fixation and shortening of the pedicle together with adhesion to the neighboring viscera on the right side and sometimes to the duodenum in its retroperatoneal portion. In such cases ubcapsular nephrectomy is adequate but if the fixation is due to carcinoma of the pelvis the Lidney and capsule with the pelvis and a sufficient portion of the ureter must be removed and it is in these cases that the duodenum will be endangered even by the most e pert and careful surgery mjury is usually caused by heavy toothed forceps which are applied hurr edly to check a sudden hæm orrhage from loss of control of the pedicle of the kidney-the vena cava is often inju ed in the same manner The h gers re a sale substitute to i r ceps to temporarily check the bleeding \essels the size of the renals far ly jump into the fingers and can be held until the non biting forceps can be safely applied. As a rule the injury to the duo denum 1 not manifested for several days. The injured part becomes necrotic and a duodenal fistula of a most dist essing type results which will often if not usually cause the death of the patte t

With an adequate in iss n f r the emoval of the kidney such as has pre tously been described by the author injuries to the duodenum r failure to secur the tessels accurately will seldom occur Divi ion of the structures behind the twelfth rib combined with transverse incis n mobilizes the lower wall of th chest and with the patient lying

on the loss of the opposite side well elevated in a saddle nephrectomy has been made a safe procedure because it is done under the eye

What can be done to repair the damage when a duodenal injury occurs is the crux of the problem for as a rule the injury is not made manifest until several days after the operation The character of the fistula does not lend itself to spontaneous heal ing the gastric intestinal pancreatic and biliary secretions in combination rapidly enlarge the opening irritate the skin and exhaust the patient In such cases a transperstoneal attack on the fistula should be made and the descending duodenum lifted from its bed The opening should be sutured and a flap of peritoneum or omentum transplanted across the suture line and finally a jejuno tomy should be done for temporary feeding purposes

# Rosenblatt J and Margoulles Pyelography

(Zu Pyelographie) Verbandi d deul che Rönig Gesellich 19 3 ix 8 By Zentralbl f d ges Gynak u Geburtah s d Grenzgeb A 45 year-old patient had pain in the left Lidney regio and kinking of the ureter was suspected

therefore 40 ccm of a 5 per cent solution of collargol was injected without any difficulty While the rontgen p cture was being taken she suddenly col lapsed and died after 15 hours. The diagnosis of rupture of the pelvis of the Lidney was confirmed on post mortem. There was no collargol in the ureter kidney pelvis but the cellular tissue around them at a distance of three finger breadths from the bladder was soaked with it There was no tear visible either in the uncter or pelvis Probably there was a very slight tear in the Lidney tissue Although in cross-opical examination was not made it may be assumed that the collargol as in Blum s experiments on the cadaver was pressed ut through the ruptured k dney tubules into the lymph spaces underneath the capsule

Pyelography therefore should be carried out with the greatest caution. Where it is absolutely ndicated Lummell's method is to be preferred KAORE

### Fowler H A: Closed Tubercul us Pagnephrosi J im M A 9 4 lu 12 By Surg Gynec & Obst

While this condition would appear from the literatur to be comparatively rare-Smirnow find ing but twenty four cases reported-it is probably more common than reports show. Larber cases studied without the aid of the cystoscope or ureteral catheter were rarely diagnosed before operation Even by the newer methods pre-operate e diagnosis

may be very difficult there may or may not be a may be very connects there may at may not me a serial discussion is present or the strophic organ

has become fibrous and much contracted The author describes the pathology of the con The suther describes the pathology of the con-dution, and the effects on the periodic traces, in which there is usually more or less fibrous deposit the control of the co

which there is usually more or less fibrous sepont, observed antionical landaries. Occasionally secondary absent formation cocurs—une case secondary absent formation cocurs—une case antion to following three clinical grounds the case and the following three clinical grounds. In the fast the bladder is tubercallon that the plantaries of the case of the an one was the manner is tunerenous the

success on the concentration and is impermeable and in the region of the diseased kndory there is a large meanwhater as a large than the concentration of the diseased kndory there is a large than the concentration of th the region of the ausensed author facts as a sarge possibility of the diagnosis is easy and the bladder is normal one. In the second, the bladder is normal one.

2 in the second the bladder is normal one any region there is a tumor. Diagnosis is possible may region the normal one. inc mistary etc. In the th rd there is advanced tuberculosis of

the bladder treteral catheternation ampossible an int manner ureieratemeterizationisimposashie at enlarged ludney may be palpated which in diseased bealthy said only hypertrophied while the diseased to the said only hypertrophied while the diseased to the said of the said from the history etc incurry and only hyperscopies while the history is attorbin. The author does not men exploratory incursors. Diagnosis 18 possible by

exploratory incision the author does not men took the possible value of radiography in some of He reports a unique case in which the symptoms these conditions

He reports a unique case in which the symptoms dated back 17 years friendly an absorber the castal the left post against a few manners. the left post smiles y increased the plant process was made between the post was made to the process was made to provide the plant the process was made to process was made to process was made to process which was the process of the plant process which was the process of the plant process was a process of the plant process which we have been processed to be processed to the plant processe

tound to have beneficiated the pleura through the daubtragen causing a tuberculous first, operation. Causing a tuberculous first, operation, or cavity had been drained at the first operation. The tuberculous was found in the representation of known cavuy nau neen gramed at the mat operation. The lidney was found to be converted into a large The inducy was found to be convexted mine a larger procession of the procession of the procession of the removation Although in the removation of the removation of the procession of the proces

pyonephrotic sac no damage was done to the pertoneum or intesine a fercal fatula developed in the would four days later and the patient deed in the period of the period o Mills the name pad pecome clear and the pladder

While the urne had become clear and the bisader bealthy although contract d the author points on the area of the author points of the a ten days after operation nature to turn renat turercountry and amphragm and the duphragm and feedly the along turer turercountry and turbercountry and turbercountr tubercular process involved the disphragm and fanally the pleura but it had also invaded the of a fanally the pleura but it had also invaded the of a fanally are and intentional the office of the control of the original o toneaus and chestines were for pressure of a movement induced by a largit e cassed the in movement immuced by a meant of caused one way

Stricture of Ureter Simulating Replica-By Surs Gyers & Obst. remited Baar reports the following case because of the

tauth, of infaminators successed of the rister ranty or innaminators arctures of the ureter traveling salesman aged 40 complined of frequent craveing successors when a the right lumbar region attack of colicky pain a the right lumbar region.

radiating along the line crest into the glans penus with tenesims and meteorism of the abdomen with tenesimus and inetention of the accountry Such attacks would come frequently two or three times a neck after any physical exercise and sould be releved only by morphise A year any be releved only by morphise in the right states the releved only by morphise in the right states where the relevant of the relevant proyection suspections a stone in the right kidney made a kidney includes but dd not find any stone

and the attacks continued unchanged After close observation for three weeks the atter cose observation to three weeks too author concluded that the patient suffered from orable acid grayed in his right ladney. He say put on Cautant a diest sodium preachouste and pipmin on Cantant's duet somme incarconiate ours assured extended and a hot bath every day. carbonate enervescent and a not pain every day Three months later he had snother attack of renal Ames mountain pares are one night while trying to void cole with tenesmus one night while trying to void urns the stream suddenly stopped and siter a strange sensation as if some forcers body had present the trueshow, the flow observed second

arrange semantion as it some foreign by passed the uretime, we may make again.

Two years later while the author was absent abroad during one of the patient's attacks, a bromment angeon dragnosed the case 22 ablest dichts and removed the appendix After recovery uncus and remarks the patient continued to suffer from the operation the patient continued to suffer the same panily attacks. On recommission the the same panily attacks are constanted put sufficient the same paintin attacks on recrammation on the shreds found in the unite continued, proceeds with the characteristic groups of generocco. The products are the characteristic groups of generocco.

Six weeks later the right Lidney was catheterized and the name was found 1 contain many intra estimes genococci the rane from the left showed centure supposed the following The disposes neither purcells nor generated Pyelita decira sea then changed to the following Pyelita decira

Southern Chaires Southern blooteries Sou Within the next ten months the patient received WHAM THE BEST ICE SHOULD SEE TO BE COUNTY MINISTERS OF SOCKE OF \$ 30 Per cent protested

norry injections as a year of the real pelvis. The real solution into the right renal pelvis. The things solution into the right tenal of the first bridge, cours ceased from the time of the dist catheterization and nere not reappeared and much as the urns at II shows pos and intracellular moun as one or me as a source pur son interesting. gonococci there is not a resumme as integram out the author at tes that he has eff cred a practical the author at res that he has entered a phastical cure by reducing the inflammation of the uretre which was producing the clinical picture of real which and which had caused the patient intense

Babrooks W A hore as to the Recognition of the Universe Recognition of the Universe Recognition of the Universe Recognition of the Appendix of the Universe Recognition of the Recogniti suffering for years previous

The author points out that the normal or dilated ane animor ponus our that the normal or dunes ureter may be absolutely differ stigged f in other urrier may be absolutely differ nutsted in others are considerable processed on the state of the overlying state are observable through the overlying per state are observable through the overlying per state are observable and the found in the per succeed obtained to the state of the state o u cteral piexus of ourset ease. Inst to airde upwards ments and the ureter is see hint to airde upwards

mems and the ureter is see nrst to since upwards under the perstoneum and then after momentary under the pertuneum and then after month

trombone movement is usually observed but in some patients the associated contraction wave is more marked About one half minute may elapse between the movements but they may be excited almost at will by stroking the tube They differ from peristaltic intestinal movements in character periodicity and reaction to irritation and serve to absolutely differentiate the urster The observation may be easily verified by exposing the structures over the sacro than synchondrosis during an ab dominal operation

The uretero appendicular anastomosis was extraperitoneal the appendix having been pulled through a small opening in the peritoneum. The left ureter was imbedded in the rectum. The patient who had an advanced carcinoma of the bladder died two days later

# BLADDER URETERA, AND PENIS

Arcelin Röntgen Diagnosis of Ves cal Calculi (D ignost c radiographique des alculs vé icaux)

Cong d 1 33 f nc d rol Paris 19 3

By Journal de Chirurgie

Arcelin shows that the rontgen diagnosi of vesical calculi is particularly difficult because of the opacity of this region to the \rays. The plate may show a shadow in the bladder region but there is nothing characteristic about it. It has to be iden tified by clinical and instrumental measures If the plate does not show a shadow there may nevertheless be a calculus. In practice about to per cent of vesical calculi escape radiographic demonstration Accessory methods, such as injection of water oxygen and collargol are very diffi cult to use Aside from these limitations rontgen examination has its advantages. In patients with stricture of the urethra diverticula of the bladder etc exploration by \ rays may show calculi that could not be disgnosed by any other means

### Luetscher J A Acute Cystitis Due to the Bacil J Cl Rese h 19 4. By Surg Gynec & Obst lus Aerogenes Lactia

The author reports two cases of bacillus aerogenes lactis infection the first a cystitis in a woman of 28 two months pregna t and the second a prethritis in the woman s husband

In the case of cystit the sympt ms were acute confining the patient to bed and showed con siderable te de cy to recurrence but cleared up in four weeks Cathet rized unnes taken on the sixth and ninth days showed pure cultures of the bacillus aérogenes lacus

In the second case the urethritis des loped four days after the acut smptoms appeared in Case I The d scharge was ; llowish watery and acid and contained few pu cells but no gonococci Fre quency of urmation with tenesimus and a tempera ature of o3 with prostration headache nd nau ea developed subsid g by the tenth day It was fol

lowed by an acute epididy mitis on the twelfth day with a temperature of rout terminating in recovery on the twenty minth day

A blood culture on the sixth day and a Widal test on the ninth day were negative. Cathetenzed urines on the ninth and fourteenth days showed pure cultures of bacillus aerogenes lactis

The organism was an encapsulated bacilius with rounded ends, which did not stain by Gram's method Colonies on agar plates and agar slants were about one millimeter wide and of a bluish opal escence on potato there was a heavy vellow viscous growth milk was congulated in twenty four hours with acid production and in a fermentation tube with saccharose solution there was considerable gas formation

The morphology capsule formation absence of motility rap d coagulation of milk and gas formation leave no doubt as to the identity of the organ 15m The author calls attention to the possibility of the first case being regarded as due to the colon bacillus and the second case as a conorrhora without careful bacteriological study H G HAMER

Technique of Operation on Large Solowii A Fustular of the Bladder by th Abdominal Route (Zur Techn k der Operation schwenger Blasenfisteln f abdomunalem Wege) Zi h f gy dk

U al 913 13 By Zentralbi f d ges Gynak Geburtsh s d Grenzgeb

Solowij uses Dittel's method of operating by laparotomy on large fistulæ which cannot be closed through the vagina. He splits the uterovesical fold a d thus reaches the fistula and sutures it. Recently he has extirpated the uterus from above and finds that this procedure makes the operation much easier Hæmorrhage is thus decreased and the approach to the fistula enlarged

One great advantage of the operation is the possibility of thorough drainage through the vagina as in this way the danger of urine infiltra tion and infection is avoided if the suture does not hold If the fistula is densely adherent to the os nubis it must first be loosened with a rasp. A detailed history of a case and the operation is given K out

Lower W E.: An Improved Method of Removing a Diverticulum of th Urinary Bladder Class-IndM J Q A By S rg Gynec & Obst

From his experience the author believes that if a diverticulum is converted into a sol d or semi solid mass its removal is more easily accomplished. He reports a case of diverticulum of the urinary bladder in whi halter posing the bladder collargol solution which had been previously injected into the d erticulum coul i be seen issuing from its open ing Through this opening was packed about one ) and of ne inch strips of gauze With the fingers a thin the bladder its upper portion was pulled forward and dissected from the perstoneum when the neck f the d erticulum was brought into view it

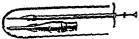


Fig 1 (Bredin) Bred as new prethintener showing kan en surmanded by a bif tem catheter. A set screw operated by the thumb sets free the kni es

was divided entirely from the bladder which was held away hirently by retractors. He unter was necessarily divided by the nucleon which freed the diverticular and it was temporarily tred off to diverticular was then rarefully dissected was jiron the surround on structures and removed. The divided under was then transplanted into the bladder through the opening much by secting the bladder through the opening much by secting the diverticulum.

# Bredin W W A New Ucethrotome 1 1 M J 1914 zc 170 By Surg Cync & Olst

Bire has new a trument shown above at aid to be applicable to all cal leers and all parts she strictures are countly from The instrument of the control of a man of the control of a man of the control of a man of the strength of the control of a man of the strength of th

# Kollacher G Glamp Resection of the Urinary Riadder J for H d to 5 it 296 lly 5 tg Gynec & O'nt

The disgnostic ( ture of the case consisted interesting the verteal etc. by adel man filling the prevair In the was a cure) necessated user was bonn to be their a cure; necessated user was bonn to be their a consistent of the manner of the constant of the constant of the constant of the constant of the carring the tunor. The praction of the critical of the carring the tunor. The praction of the control the application of the all the carring the tunor. The practical of the properties of the carring the tunor than practical of the carring the tunor and the carring the tunor and the urround ag influence of the canner of the constant of the carring the constant of the carring the constant of the carring the carring the constant of the carring the carring the carried of the carring time to the views.

After removal of the clamp a uperseding sum of After removal of the clamp a uperseding sum of the bdominal wall complet by the was meeted and the

closed The after treatment consists of cathetenzation at regular intervals.

The case proved a technical success the beating being interrupted only by the appearance of an abdominal fisted a that closed inside of ten days Cystoscopy undertaken three months later showed normal conditions. The capacity of the bladder was 1100 ccm. Harr A. Karet.

# GENITAL ORGANS

Pastrau O and Degrait The Propleyment of Radium in the Treatment of Caucer of the Prostate C and P at B Rr 91 32 var 17 By Sung Cynce & Obt

The authors divide the surgical treatment of cancer of the prostate into two healings

I distant leatment which to sost chiefly of uprapulses crisis so, in titsted it is the principal of release the sector systits. The authorities the sector systits the authorities are not the provide a single principal or those of career. They may have similar retentions similar infections etc. There is nothing specific in the treatment of ancer of the provide and the pallial ve treatment recognition and the pallial ve treatment recognition.

2 (x stire treatment by lotal postatetimy to of particular interest in cancer i the prostate. The operation is long the technique difficult the morishing result and recute n frequent. The writers were among the tirst to imploy the use of rad unrelease and the control of the control of rad untables.

n these cases.

The technique of treatment is described as follows. The surgical routes may be used for the purpose of applying rathum to the prostate as for in stant. Through the pernitum.

2 Th total through the blister after a hyperastric n ton is part ultrit alual le to crees where it is necessary 1 do a ut 1 bit cristolomy for relief

) I r rectum in The natural routes a which the whole of the post rive tax of the prost the lobes a he spored and it is then ea to stradual the whole of the | mt rr portion of the giand The pplications should be made herly id um plaques on the urface b me est. Rad um tubes ma |w he wed but not as easily owing to the lat that the sea to cover the post for portion of the t be with at me in such a the antenor portion (b) The rout through the urethra leads way that the sy c h . d rectly to the pressance thouse The tube which is ompletely surrounded by glandular tresue comes in contact with the lat ral lobe nut by bet giurther introduced it may also rea h th median lobe

The authors b I eve that the unith an rectum may also be used at the same ten too treatment thus making a cross if on the provide. They state they have used the attractional treatment of radoum in treating hiteen patients but few of these patients were sufficiently persevering in their these patients.



Fig 1 (Pastea and Degrais) Longitudinal section cathet could with ingle onfice with t be ungle orifice with t be f

radium in position

Fir Longitudinal section of catheter could with two ordices and rad um t be por tion
Fig 3 Rolling of the metallic wire which Grad around the circumference of the catheter

treatment to obtain any results in fact the authors state that lack of persistence is the greatest him drance to the success of this method

The authors do not describe the manner in which they put the radium into the prostate except to say that they consider it a poor method. They believe that the use of the radium tube in a catheter offers the best method of treatment. The authors cite the following case giving the times of application for the radium and the method

The patient a man aged 57 suffered in Novem ber 1908 and later in April 1909 from slight hamaturia at the beginning of micturition In con-sultation with litch surg on at St Thomas s Hospital Lo don cystoscopy was performed by the authors in order to ver fy a diagnosis of an infiltrating and inoperable tumor of the bladder A superficial and arregula tumo was found not broken down covered by non-ulcerated mucosa which was hower abnormally red This tumor the magns of which wer fairly well defi ed formed a marked projection more than half a centimeter in thickness. It was bliquely elongated and extended from the margin of the neck on the right to the le el of the right ureter l'orifice. It was not pedunculated but raised the mucosa en blot in its contour there was o change from the rmal spect of the vesical mucosa otherwise the bladder was everywhere n rmal. The urethr l oraces were normal though the right appe red to be rather wider than the left which was doubtless due to the mucosa being slightly thicker at the t point and to a certain disturbance of venous c culation Finally cystoscopi al examinat on demonstr ted the existence of small rounded prominences on the right lateral m gin and a little more deeply in the tissue of the bladder at this level fo a length of about one centimete These prominences were regular and smooth

A diagnosis was made of prostatic neoplasm



Fig 4 (Pasteau and Degras) Diagram intended to how that the radium tube cannot be placed in good posi-on the rubber catheter if the latter has already been introduced into the posterior urethra

hg 5 Tub f radium supplied with metallic wire which keeps t position and fi es it in the catheter

which had extended into the vesical cavity and after having completely emptied the bladder the rectum was palpated

The prostate was voluminous but hard nodular pregular fixed and thickened in its right lobe and at that point less easily defined There was no engorgement of the ganglia

The first series of application of radium was made on October 2d 5th 11th and 5th 1909 At the first seance a tube of 2 cgs was inserted remaining in position for two hours in the subsequent seances

a dose of 5 cgs was gr en On October 16 1900 after the first three applications cystoscopical examination showed that there was already m rked diminution in the size of the vesical tumor

Inother series of applications was made on December 23 1909 and on January 2d 6th 11th 15th and oth 1010

1 urethroscopical examinat on made by Gold schmidt s instrument on December 18th showed that there was no ulce ation and but little redness except on the right side On this side the wall was apparently elevated by far ly regular and rounded lobulations one of which manifestly corresponded to prominence which was seen on the margin of the neck of the bladder on the right side

The author conclusions re as follows cases reported apparently showed with certainty that the action of radium has been obvious in c ses in which the clinical di gnosis of cancer has been made by competent surgeons and confirmed by examinate a conducted in the best possible manner but in many of these cases absolute diag nosis of cancer was practically impossible and was lacking. They speak of two cases where inguinal glands were involved and claim that they showed marked diminution in size after the treatment of the prostate with rad um Quoting direct the authors state



Gardner J A. and Simpson B T The Relation of Multiple Adenomats to the Etiology of the Enlargement of the Prostate Gland Surg G) of Obst 914 X U 84

By Surg Gynec & Obst

Gardner and Simpson have studied one hundred prostate glands ranging in age from six months to ninety years These glands were obtained from autopsy and operation The authors find that prostates between the ages of forty and sixty years contain isolated adenomatous nodules while those between sixty and eighty years are either normal atrophied or enlarged due to multiple adenomata They agree with Chevassu that these adenomata may spring from any portion of the prostate gland Having found adenomatous nodules in the so called surgical capsule they cannot agree with Tandler and Zuckerkandl that prostatic enlargement always begins in the middle lobe. Their conclusions are

As far as our research with enlarged prostates reaches the condition in the majority of cases is caused by the growth of multiple adenomats

Morton, II II Prostatectomy Med T mes By Surg Gy ec & Ohst xlu ra

The author after presenting two cases of supra pubic and perineal prostatectomy adopts Guyon s division of hypertrophied prostate into the fol-lowing three stages (r) Premonitory in which the symptoms are difficulty in starting the flow of unne disturbance of the stream frequency of urmation especially at night (2) Insufficiency of the bladder which is characterized by partial reten-tion of urine (3) The period of incontinence during which the bladder may hold two or three quarts of urine and the patient complains of in voluntary escape of urine

To diagnose these three stages the author ad vises the following systematic examination

- 2 Palpate the prostate through the rectum 2 Measure the quantity of residual unne

3 Inspect the prostate with the cystoscope As to choice of operation, the author thinks the anatomical formation of the prostate decides the choice In his opinion the causes of death after operation are in the following order (1) Suppression of urine (2) shock (3) hemorrhage (4) pulmonary emb hsm (5) gangrene of suprapubic nound and general sepsis. The ge eral mortality in all non selected cases in big hospitals he thinks is about o per cent and in selected cases about 5 per rent S WM SCHAPDIA

Garraro N: Symptoms of Prostntitis without Enlargement of the Prostat (S r les prosta-tique sa prostate ) CI & 0 3 xx 45 By Journal de Chirurgie

After having discus ed the prostatic bladder and the theories given to explain it the authoreports four cases of h s own with symptoms of prostat its but without hypertrophy f the prostate Cystoscopical examination showed the neck of the

bladder deformed by nodules of prostatic adenoma After the enucleation of these nodules by Freyer's method normal micturition was re established

The author concludes that before diagnosing bladder troubles as due to prostatitis all central or peripheral nervous lesions which might give rise to similar symptoms should be eliminated as well as the various causes of stenosis and retention, and that all methods of examination known to modern urology should be practiced A cystoscopical examination especially should be made as it gives excellent results, giving a view of the neck deformed by very small adenomatous nodules Freyer's operation is effective to such cases

The nodules removed from Carraro a four patients were adenomata within the sphincter developed at the expense of the glands surrounding the neck

PIERRE FREDET

Rochet V and The enot L.: Removal of the Testicle the Vas Deferens and the Seminal Vesicle for Tuberculosis of Those Organs (Ablation d t t cule du canal deférent t de la ésicule séminale correspondante u cours de la t berculose de ces rganes) Co g d l'A 9 3 Oct By Journal de Chirurgi

Rochet and Thésenot carried out this operation on a young man of 19 A cold abscess of the epidi dymis had been incised and a fistula had remained On his admission to the hospital he had an extensive induration along the whole length of the vas deferens and a very marked increase in the size of the right seminal vesicle the lesions being strictly limited to these organs extensive resection was decided upon At the first operation the seminal vesicle and the abdominal part of the vas deferens were removed through a Pfannenstiel incision at the second one the testicle and the inguinal part of the vas deferens were removed the latter procedure being by the scroto-inguinal route while the first was by langrot omy the posterior surface of the seminal vesicle being dissected off in a manner analogous to Wer theim's operation for uterine cancer I Dunovi

# MISCELLANEOUS

Barratt J O W and Yorke W: The Production of General Symptoms in Hæmoglobinæmia BIV J 941 35 By Surg Gynec & Obst

Barratt and Yorke show conclusively that the symptoms coming on after the injection of laked blood cells are due not to the dissolved hamoglobin but to the stroma of the red blood cells themselves

Rabbits that received the stroma solution intra venously died practically instantly but those that receiv d the hamoglob a solution suffered no The effect of the injection of laked cells upon the congulation of the blood was not certain sometimes it seemed to prolong the coagulation time while at other times it seemed to sho ten it The cause of death in these animals was due to the ntravenous formation of fibrin in the blood vessels of the lung I D LESPINASSE

# SURGERY OF THE FYL AND LAR

### EYE

Claiborne J II: A Cose of I'mbolism of a Branch of the Retinal Artery | 1 g M S m Month 1914 Evail 503 By Surg Cyace & Obst

The following case illustrates a one wied central scotoma which the patient is at le to ignore, though he is a professional and literary man and

uses his eyes constantly

A greatenan of medium height aged 63 high strung nervous but healthy and of abstemous habits if it a large blar almost tertilig obscuring in vision, su idend), come over his leit eye while ho was going down attus one morning after herel. Sat. He had gone to list of a trivial to the protain and make a morning of the property of the property of the property of the protain and the structure of the property of the vector in the habit at a stool selector is the vector in the habit at a stool selector is the

осситепте

The blur became better during the day but later on became worse. The author saw him on the morning of the day on which it happened and observed the following con I tion. The left pupil was lightly larger than the right but reacted normally directly consensually and in accommodation the tension was normal me lia clear optic nerve inflamed slightly blurred above the lower central vein as it plunges into the nerve head was con stricted upper vein enlarged and almost lost to sight in a slight cloud ju t above the di L directly above the upper edge of the nerve a branch of the upper yein as it runs towards the mucular where it cro-ses an artery was much narrower the seins in general appeared to be rather full and dark right sision 23/30 left view n 23/200 plus eccentric fixa tion heart sounds normal but action slightly raps ! Li lneys found to be normal the field of vi ion showed a perfectly black scotoms in the center. Two years and seven m ath after the first

Two years and such m nth after the frait observation about the same condition was present in the fundus a at the former obs reation—aboute central scotums somewhat irreg lar in form and about one-fourth the size of the original. The purious is in gentlent can be surelient cond too has ne er resumed the use of t bacco or coffee is undisturbed in reading or in other with the condition of the cond

The fact that the capillary network 1 lacking at the point of acute vision has long since been establi hed Leber Becker, Gurlaci Reuse Ayres and Mayerhausen agree that the foves is devoid of retinal blood vessels while the remaining part of the maculty region is included. Mayer hausen estimates the square arts of the maculta at 256 mm of which 205 are very assoult while the inference between these figures represent the non-associat rates? According to the same between the vessels of the macular region terminate about 157 mm from the edge of the forces.

In view of these things it is not unreasonable that embolic clogging of the circulation of the visiel feeding this are; however small the embolism may produce a soctome entury limolying the macula rigion include githe? ea The fact that this patient can see the top letter of the card in looking at it and can see none of the other it is below would ten! to show that the upper region rather would ten! to show that the upper region rather than the continue of th

A diagnosis of emboli m of the retinal central artery pritril or complete may be made by the ophthalmoscope alone but sometimes it is discult to do so owing to the uncertainty in picking out the exerct blood view of obtructed. The field and the h tory of the case shoull always be taken into conductation and are important factors in fixing

the diagnosis

The great congestion of the veins in this case which was observed on the first exam nation led the author to the view that the process was a venous one probably a thrombou at the nerve head, but the sub-eque t levelopments the central scotoma an I the construction of all three temporal arteries more particularly the superior temporal one shows that it was a case of embol m of the latter arters in short a part il embolism. Moreov r he has noted in cases of thrombous that the obscuring of vi ion does not come on as suddenly as in embol 🦡 and in the nature of things this should be so He has noticed I kenise in emboli m both partial and complete that there is frequently a great enlargement of the vin particularly in complete emthe mbolus as it p sed to th ret a at the porou opticus topped there an I mpeded the outflow of the venous blood thus producing distended veins. The distention of the v ins is naturally more noticeable than a slightly const acted artery hence the idea may be concerted at first that the process is a venous one It : interest ng to not th t in the case note ! the size of the scotom is now very much less than it was at the beginning but it is new theless large enough t nterfere with distant central vision and to prese t the patient from realing with that eye though the periphene filld is and has been normal

Exact diagnoses in the background of the eye are difficult to make owing to its limited area and the intimate connection between the elements of which it is composed hence all factors should be con sidered and each given its true value

Stephenson S A Case of Brawny Scientils Proc Roy Sec Med Q13 vu. Sect Ophth 1 By Surg Gynec & Obst

The case reported is that of a carman 76 years old He gave a negative general history and a Wassermann proved negative teeth were in bad condition The left eve had become inflamed with out pain or known cause. The bulbar conjunctiva abo e the horizontal meridian was brownish red in color with dilated vessels running over it Farly this area was ordematous later more brawny in appearance A patchy sclerosing Leratitis devel oped around the margin of the cornea less market above The vision recorded early was 3/24 The treatment consisted of salicylates potassium iodide and a borne wash

In the discussion tenonitis solid ordema of the consunctive and malignant tumor of the choroid were suggested as other explanations of the condition

Davies, D L. Modern Treatment of Lachrymal Obstruction La cet Lond 19 3 cisares 26
By Surg Gynec & Obst

Davis believes probing or the use of styles un satisfactors extirpation be considers an advance because shortening the treatment and preventing suppuration but mutilating and therefore un surgical He has used the Tota operation in which the sac is exposed its wall removed also the inner wall of the fachrs mal fossa and the two openings approximated in ten cases with perfect success in seven and improvement in three He concludes by expressing the hope that there will be more develop ment along this line of treatment as he believes it will sield e cellent results EARLE B FOLWE

Maynard F P A Modification in Extiroation of the Lachyrmal Sac Indian If Gar 914 li 7 By Surg Gynec & Obst

The peration described in this article is a mod incation of that developed by Kuhnt. The inner wall of the sac 15 dissected outward together with the periosteum and followed down to the nasal d ct This is cut as low as possible and the upper end grasped with a fixation forcers. The sac is then freed upward drawing it up and inward the canalicular openings are cut whatever remains of the internal pulpebral ligament : se ered and the fundus freed. The author considers this the most satisfactory equence L RIE B FOWLE

Harman N B Tumor of the Chorold I'ec R v See Med 9 3 11 vect Ophth 8 By 5 rg Cynec & Obst

The patient a w man aged 46 reported gradual failure of 1 on in the left e e over a period of three months, becoming almost complete three days before examination. The ophthalmoscope revealed a globular detachment above the disk with normal fundus reflex below and above There were numer ous hemorrhages around the disk tension was normal and there was an absence of inflammatory symptoms Enucleation was advised

EIRLE B FORTER

Hansell If F: Some Further Experiences in the Extraction of Immature Cataract by the Homer C. Smith Method Med Rec 1914 By Surg Cynec & Obst

Hansell reports two of his last five cases on which he performed an extraction by the Homer Smith method In both cases the cataract was immature but vision was reduced to less than 20/200 in both I preliminary indictomy was performed at a later date a n edle kmie was thrust through the cornea and a cut made in the anterior capsule and underlying lens cortex Twenty four hours later an extraction was done. In these two ca es 20/10 vision or better was obtained Links B Lowers

Chatterton E. Case of Double Tubercular Ititis. P or R y Soc Med 913 µ Sect Ophth 5 By Surg Cyner & Obst

Chatterton reported a case first shown 8 months At that time both in les were thickly studded with yellowish gray vascular nodules posterior synechia and vitreous opacities were present in both eyes R \ 6/24 L \ intra ocular hemorrh ge in the left occurred some weeks later Repeated paracentees of both an terror chambers was done and tuberculin given. All nodules have disappeared R \ 6/12 and I to L \ hadows PARLE B LOWLE

Cunningham A T R: Report of a Case of Grad ual Occlusion of the Common Carotid Artery in the Treatment of Pulsating Exophthalmon 914 les 375 By Surg Gynec & Obst

The author reports a case in which a clamp was used to cause automatically a gradual occlusion of the comm n carotid in a case of pulsating exoph thalmos

The condition occurred in a man 39 years old coming on rather suddenly in the right eye two months after a blow over the left cheek and con tinuing f r four years \ sudden attack of uncon actousness brought the case to operation clamp used was one described by \ell and consisted of two blades hinged the compression force being obtained by a rubber band This clamp was applied to the right comm a carotid the tension being I ght enough to permit a pulsation to be felt di tally The wound was closed over the clamp and pulsation had ceased a four days thereafter Two months later th clamp wa removed and it was found to have cut its way entirely through the artery

FA LE B LOWLER.

J O: Orbital Abscras, from Infection Drough the Ethmold Sysur Gynec & Ost. By Surs Gynec & Ost. Roe Through the Ethmold

The author's first case was a boy 17 years old ane sounds and two was a pay at years away there was marked adema around the right eye and oup t with a calimpte training of the abbat ind I mion ore c was a communa ranning of the upper lid cumor blurred temperature 103 F interest pain back and above the eye It was doubtful whether it was a constant amounts with a submarkateral change are an excepted amounts with a submarkateral change are an surve the eye to was nonning where it was a translat singuities with a subperiorical abscess or an infection to the orbit through the ethnoid. Upon palection to the oran through the elamon, Upon and elamonation, there was a microgradient and charge from the ethnod region. of the middle furbinate was removed the posterior of the mount caronaus was removed the posterior chandled cells and posterior portion of the orbital of the mudde turbusate was a proton of the orbital ethnoid cells and posteror portion of the orbital related to the puss as drained and the partent made as covery as swelling to both eyes the part of the post of the part o temperature 193 r the cuspnosts was orbital infection with abscess or a meninguis. united american wat suscess or a meninguis follow temperature 103 same operation was done as in one came away pathologist a report and orbital phigages away in mise to the standing stan tuous ethnoid is The author compares the ad antages of the orient and intransal route and states he have that the latter coults us the heat after and most direct in a properly cutting forces, and the country of the country of the country of the cutting at right angles are made for right and left cutting at right angles are made for right and left

He locates the posterior wall of the masal carries are sociated the posterior wall of the massic carrier through its entire extent from the critistom plate to the fa colour process with a steader the factor process with a steader than the factor process when the factor process which the factor process when the factor pr probe this he lays stress upon to obtain the

possibility of entering the cranial cavity

Wood J W: Direct Examination of the Eustachian Tube and Nasopharynz, Ucd Press & Cr.

Based upon his findings in the study of 650 cases by the direct method with the Holmes nasopharyn. scope the author has classified the disorders of Rescope the author has classified the inflammatory the custachian tube and finds the inflammatory conditions most common and never seconditions

conditions must annually with normal hearing Acute salpingitis is the most important condition affecting the enstachian tube as practically all ease anering the entaring time as practically at catarial of chronic middle ear catarih originate in catarina or currente nature car catarin originate in chancing the manphary ax and the month

the sustantian tune. The author concludes from his find not that in all The animol concinnes months to make a plecie of the eustachian tube d agnosis it is of the greatest importance to make a the nanobyet) agreecobs

Lonnine examination of the bost usual state any
in addonus it is not one Richtest imbourance on many.

# SURGERY OF THE NOSE,

Dutrow II V Deformities of the Nosal September of the Operation of the Submissions for the Submission of the Submission

Asymmetry of the septum was present in 77 per part of 3,000 Anglo-Sason shalls examined by and of 3,000 Anglo-Sason shalls examined by cent of 2-000 Anguo-bason saums examined of 3 december and pured found only \$ to per a faction of the sauthor believes the december of the sauthor believes placehone anne Jurceit toung only the behaves of the control in two negroes of the survation of the sort planning theory of the control of th pervasion to be source in the stand of the brain case in ment and early resification of the brain case in comparison and the the board of the face. comparison with the bones of the face resumation of course is a factor in a small percentage of cases. or course is a ractor in a smail percentage of c the carroes an deviations into two classes both Simple and (2) those associated with overprost). Deviations are tarrely seen in children under seven and the second of any three second second of the Deviations are rarely seen in cammen wants development between the fourteenth and trenty fifth years and between the fourteenth and trenty fifth years ment between the fourteenth and trenty fifth years. norm reserved and nonrecently and verify and years.

Devotions should be corrected at any time when Directions about he corrected at any time when symptoms are which can be traced to that source "home symptoms are a, and obstruction head above when determinents described in the conarms ayunyuma are assau onatucum organ score reary unusuance occupies and expension from the A general angesthetic is rarely percession of troubles A general amention in terror processor, in the processor of the developer and the only operation of the correction of the developer and the only operation of the correction of the developer and the only operation of the operation of operation of the

THROAT, AND MOUTH Dutrow ad uses in going through the cartiage, is do so at an angle of the ri, five degrees instead of to up as an angle of the riv pre degrees assemble as night angles. It is easier to elecate on the opposite angle with this meason and if batton boling follows and with this meason and if batton boling follows. usée with this incaou and it button boing follows permanent perforation as a coded as the cooperation of the control of the co accessory ar celes in the posterior portun of the septim Theoperation hould not be enable a race appropriate the septim hould not be enable a race. septum ane operation notice names a rate against time with the chance of sacrificing useful espanes which we cannot be savincted such patients shall mutose to sa e a few minutes for the patients shall this operation well and there a gasally little shock.

has oper time were and there a manuary artic society and solutions Holer G The Question of the Errology of Growins
For M Rec 9 5 S rg Greec & Obs.
B) S rg Greec & Obs.

Holer support th theory of the ettology of the Hofer support to them of the change was a concentrate fortier a come to have a been reported to the the sent of experiments by a children when the change of the change of the children of the occupacions lemmin ocean in pure unitire and initire the treated selected it preparets accuse when we en a treated serious cases present ag the ardinal 35 mptoms of genuit cases present ag the ardinal 35 mptoms of genuit cases. The results were so rema kable that if cuses are The results were so rems kable that of cuses anthor believes that the act a beside by ( worsh the be illus guaranter

# ABSTRACTS OF SOCIETY PAPERS

# AMERICAN SURGICAL ASSOCIATION

MEETING HELD AT NEW YORK CITY APRIL 0-11 1914

May o states that all vertebrate animal sufference concentrate instantous affected by their habits of conductions of life leading to local lessons in the protect te mechanism. He believes that we should look upon local lessons as an invitation to cancer which the conductions as an invitation to cancer may be. The term precancerous should be initiated to those conditions which clinically and microscopically cannot be said to be surely being or surely malignant the character of the cells are changed they lack differentiation but as yet there are no infiltration of the surrounding tissue. This was in militration of the surrounding tissue. This was in the conductions which have after many growths and in condutions which have after ward developed mylignancy. The local lesson is the invitation and the precancerous condition the probable acceptance.

He divides the sites of local irritation into three groups (1) Congenital or acquired neoplasms such as moles, warts and benign tumors which my undergo malignancy (2) traum's which strongly influences not only the development of sarcoma but of carcinoma (3) chronic irritation which he con siders the most important of all the precancerous conditions whether the result of mechanic 1 chem ical or infectious agencies amo g the many examples cited are. The development of cancer in the m uth from betel nut irritation in India amou t ing to nearly half of all the epithelial cancers of the country the development of cancer in local less no produced by h t as canc r of the l p from smok ing the kangn sores following burns which form more than 50 per cent of all cancers in ha hmir those cancers on the sh ns of locomots e drivers who have been e posed for years to the direct action of heat cancers following chronic irritatio due to d flerent form of radiant energy \ ray etc can cers following the local lesions du to infections such as biha zia of the bludder treponema pallidum in keratosis h guz nematodes n testicul t tumors in horses n l in gastric ancer of rats and the horn core cance of cattle due to the irritation of the ropes through the horns with which the cattle pull their k ds If the betel nut were not used in Ind an I the kangri basket in ka hmir the cancers in these two countries would be reduced one half

The author calls attention to the importance of applying the evidences of local chronic irritation in the production of cancer to the solution of problems as reca ds the development of cancers on the in ternal mucous surfaces of the body for example cancer of the gall bladder from gall stone irritations and cancer of the stomach following gastric ulcer Fifty per cent of cancers of the pelvi of the kidney are demonstrably superimposed on extensive renal calcula formation Carcinoma of the appendix usually occurs in association with chronic oblitera tive processes. In the sigmoid and rectum the irritation in diverticula may have given rise to malignant disease Cancer of the stomach occurs in so per cent of all cancers in civilized man but is not common in primitive races or in lower animals When cancer of a certain organ is found in only one class of individuals or one species like betel nut cancer and Langu cancer it means a single cause. Cancer of the stomach must be due to one cause otherwise th lower animal and primitive races we ld more often be affected Something in the habits an I customs of civilized man in connection with the cooking and preparation of food must be respo sible for this large percentage of cancer of th stoma hand a comparative investigation would he of valu

be of value

I conclusion Mayo says

I would again call

attention to the fact that pre existing lesions play

the most important part of the known factors which

surround the development of cancer that such

precaretrus lesions are produced by some habit or

le conditions with causes chronic irritation that

it conditions with causes chronic irritation that

of the habits of civilend mass as conclosed today

of the habits of civilend mass as conclosed today

from the received of the control of t

Bloodgood J C.: Cancer of the Tongue Based Upon th Study of Over On Hundred Cases. I los 5 (A & 1 tots April. By Surg Gynec & Obst

The author's study has led to some very remark ble to clus on It has demon trated that the failure to cure wh n cancer of the t ngue is fully det loped i du cheft) to the neglect to remove

case the lesion of the tongue had previously been subjected to operation the recurrent tumor was extensive and the glands of the neck involved In this group every type of operation according to the never methods described is represented. At the present time there is evidence of recurrence in only one case and here the lesion was most extensive and the operation most radical

The experience with these 14 cases proves the point as far as the immediate mortality is con cerned because considering all cases the post-opera tive mortality has been about 22 per cent Since recurrences as a rule take place within one year of the operation the results in these 14 cases also demonstrate that the improved methods promise a much larger per cent of permanent cures and cer tainly a longer freedom from recurrence

It is therefore apparent that the technique of operations for cancer of the tongue has been con quered Now if men can be educated to present themselves earlier for operation the disease will doubtless be conquered

# Crale G W The Two Stage Operation T im N 1 19 4 Ap il By S ng Gynec & Obst

The safety of certain operations especially those for cancer of the rectum stomach large intestine uterus, laryay and the tongue is increased by per forming the operation in two stages. The first stage prepares the way for the safer second stage especially in a weakened patient and the danger of reimplantation of cancer cells is lessened general advantages of the two stage operation are greatly increased by the employment of nitrous oude-ovygen angesthesia and the general technique

of anoci association In cases of cancer of the rectum a prehiminary colostomy prepares the way for the major operation In cancer of the stomach gastro enterestomy is first performed the balance of the operation being deferred until the intestinal balance is assured In cases of uterine cancer the danger of a fatal reimplantation of cance cells is obviated by a pre liminary destruction of the cancerous growth by cauterization The manifold dangers attending laryngectomy are lessened or obviated even by a preliminar, tracheotomy at which time the deep lanes of the neck are packed with iodoform gauge

The resultant local reaction fixes the traches protects the med ast num and eliminates the danger The author discusses also the advantages of the two tage operation fo cancer of th tongue and for acute bdominal infectio s In exophthal mic go ter a three stage operation may even be necessary t control the hyperthyroidism and restore the psychi al as well as the physical balance of the patient

In general t may be said that the two stage opera tion under anoci association gives the surgeon his maximum opportunity for lessening the operative mortality ate in many of his greatest surgical

rals, thus the sucreon may triumph over sucreal difficulties by strategically dividing his forces the author's own personal experience the mortality rate of cancer cases has been diminished 50 per cent by the employment of the two stage operation.

Powers C. A: Systemic Blastomy cosis
S: g. Ass N Y 19 4 April By S rg Gynec & Obst.

Powers discussed the above subject giving the history pathological conditions course and or dinary termination of the disease. He related two cases both of which were fatal. The first of these had been studied bacteriologically over a period of nearly two years the cultures of the micro organisms being carried successively from one animal to another According to the author blastomycosis enerally results in death when it becomes systemic Prolonged and increasing doses of potassium iodide and of cupric sulphate may possibly be of value and or cupin supracte may possing be it value.

The condition generally begins with cutaneous or subcutaneous lessons and generalization may be prevented by very early and very vode excision of the affected tissues. Early diagnosis of the cutane ous and subcutaneous condition is therefore of prime importance

Interesting facts derived from one of Powers cases regarding the botany of the organism have been presented by Whitman Professor of Path ology in the University of Colorado

The author strongly advises early thorough and wide excision of all blastomycetic lesions when this be possible with a view to preventing their general

Brewer G E and Cole L G Résugné of Rontgen ological Diagnosis of Ulcer of the Stomach and N 1 9 4 April By Surg Gynec & Obst Cap T Am S & A

The object of this communication is to report a series of cases furnishing data which may help to solve the two following important questions
Is there reason to believe from our present

expen ace that the routgen rays will eventually pro e as valuable for the diagnosis of surgical lessons of the stomach and duodenum as for the diagnosis of f actures and urinary calculi?

Wh t method of rontgen examination gives the most accurate results?

The most satisfactory diagnostical method up to the present time has been serial rontgenograp 1 e the study of 50 or 60 rontgenograms of the patient in various postures taken in several series at intervals of two hours until the stomach is empty These rontgenograms are studied individually and collectively or reproduced cinematographically Recently the authors perfected a true rontgeno cinematographic machine capable of making so rontgenograms of a single cycle or 200 rontgenograms of an individual penstaltic contraction from the lundus to the pylorus The following was gained by such examination or by senal rontgenography

- Size position and shape of the stomach 2 Activity of the penstalsis and width of the penstaltic contraction
  - 3 Character of the systole and diastole Denth of the ruge and the direction in which

they run

C Degree of dilatation and the motor phenom ena of the descending and honzontal duodenum 6 Pylone sphincter - whether clear-cut and

well defined on both surfaces and three sixteenths of an inch wide or irregular in contour and wider than normal

Cap -pilleus ventneult - whether symmetri cal corresponding in size and contour with the pars pylonea, or invisible deformed or spasmodically contracted

The diagnosis of extensive gastric less as a based on permanent filling defects in the walls of the stomach or cap, whereas the diagnosis of early lesions particularly of small indurated ulcers and estions particularly of small industried dicers and authoritors is brised on the interruption of peristalitic contractions as they progress pylorushand. The interpretation of findings has been norked out by a study of about 20 000 rontgenograms of 650 cases A report on 17 consecutive cases examined rontgenographically by Cole and operated on by Brewer serves to how the accuracy of this diagnostic

method The clinical history physical examination and gastne analysis of these patients was unknown to the rontgenologist, who reported to the surgeon his exact findings and an opinion regarding the presence or absence of a gastric or duodenal lesion its loca tion extent and probable can e In several cases a lesson in some other portion of the gastro-intestinal tract was disgnosticated Later each case was explored and the findings at operation recorded

In at cases an absolute rontgenological diagnosis was made and in to instances was confirmed in every

respect by operation A tentati e diagnosis on account of incomplete examination was made in 6 cases Surgical procedure confirmed 4 of these and disproved the other two One of the 2 rontgenological errors was due to the fact that a diagnosis of ulcer of the cap was based on too few rontgenograms to justify a dif ferentiation between ulcer and spasmodic contrac tion. The hypermus and ordens observed at operation were undoubtedly the result of a spasm, but no ulcer was found. The other case had all of the characteristics previously described as ind cating spann but as the area in olded was accontinated by a circular constriction the lesion was considered organic rather than spa modic. A careful matching of the routgenograms over seb other would have presented this mistake

The rontgenological diagnosis was confirmed by the surgical findings in 80 of the cases examined In 40 per cent a negative diagnosis of gastric or duodenal ulcer or carcinoma ans made by the ronigenologist even though the symptoms were sufficiently severe to warra t surgical procedure

and in not a single instance was either of these conditions found on operation in one-half of these cases a lesson in some other part of the gastrointestinal tract was diagnosed contgenologically and

proven by surgical procedure

If in a long run of cases such a high percentage of correct negative and positive diagnoses can be made rentgenologically as this series of 27 consecutive cases indicates there is no doubt that the runtgenological diagnosis of surgical leasons of the gastrointestinal tract will prove as valuable as that of fractures and urinary calcula. The time seems near at hand when chronic surgical lesions of the stomach should not be operated upon without previous röntgenological examination if it is possible or practicable to obtain one

mmers J F Suggestions Regarding the Anatomy of and the Surgical Technique in the Treatment of Jonnesco a Membrane I Am Say Att \ Y 914 April Summers J F

914 April By S rg Cynec & Ober.

Cummers first said that the Jonnesco-Jackson Reid membranes should be considered as congenital that they may always be demonstrated in every individual should the incision admit that they are nurrows e and intended by nature as bigamentary supports preventive of intestinal stasis rather than causative and that if this is so they should be divided only after they may have become restrictive of intestinal function from loss of nervous and muscular tone resulting from chrome intestinal foxenia that the so called white line is the line of fur of the duodenal and colonic peritoneum with the panetal pentoneum after their rotation has been completed and can be made manufest by rotating the attached bollow viscus in a direction continuous with the course of the blood vessels and fibers of the membrane - a direction opposite to the lotal notation. This white line may be called the bigamentary attachment of the pericolic membrane to the panetal pentoneum

The viscera I men differ in as great a degree as do their faces - there are a two exactly alde The author believes that the Jonnesco-Jackson mem branes are the cause of intest hal tasis only when their support defect e r on th other hand where it may be excessive and cause angulation These membranes although present in children seldom produce symptoms them because intestinal peristalus is sufficie tly pow rful in childhood to overcome m por diffic ities II has never observed symptoms of these membranes in anyone under seventeen v are of age and most of the sufferers were ov r thurty y are of age and from Intestinal stasis can be caused there on to surty independently of a y ngulating bands or proses as it has been clini all proved t b aused by an prompetency of the leocolic value t a large num ber of people - 50 out of 1 500 examinations - and the condition remedied by an operation correcting this a competency. The X r study of the at

imentary tract is of invaluable service in locating the cruse of obstruction in obstinate cases. Yerr many sufferers from intestinal stasis due to proves of the hollow viscers are best reheved by mechan ical supports.

Martin E. The Heocreal Valve as a Factor in Chronic Intestinal Strols. T im 5 g i N 1 1914 April B) 5 rg G & Ol t

The presence of a distinct valve indee! louble valve at the loce-real junction is radily in deleatly demonstrable. The two lips which priget into the account act inchanceally though thes are supplied with muscular fibers which pre ent regurgation. This serves the physiological function of del ving the intestinal contents in the lower it um for period frequently of m in hours.

The revon f'r the persitent con tiptuon observed in cases of crome appendicit is probably incident to a d sturbance of the ileoxeral phineter refeal; exerted by the inflam | prendix | 15 cure of the constiptuon incident t the rimou | of these appendices is probably due to restoration of normal sphineters, acts in incident to the r moval general health following these operations is almost certainly due to the cure of th accompanying intestinal states which i ledel and not exert.

The failure to ure constipation by the removal of a chronically inflamed premise and consequent the failure to better the general health o even the local pains shink are typical of sphinctern mus rather than of an inflammat on is prob bly line. The circumstance that ither the appendix is not the disturbing fector or that the phin tension has been so prolonged that either mucular hypertropy or fi brows has resulted and that return to it or man a submucous ection of the phincter hould be adequate.

The propulsion of the excal ontents into the accending colon and thene to the sigmoid is due to the stimulus f the forceful and copious injectio of the low ale I content into the carcum an injection is only possible when the ilrocaecal ph acter is functioning properly A gradual filing of the creum f ils to produce a propul e impul e resulting in a gradual dl tation with at time coreed ent real agging. It would therefore weem Tational t n der tleocarcal pa m s one of th important fact re i colo ic str. The argument is furthe re of reed by the fa t that after reim plantat n of either the trans erse colon or the s gmo I th carcum and the ascending colon ma becom e rm u? d ten fed unfes mean be taken to pre t b (ten l pa age of the content of the large bow 1

By a ubm u cett the leocreed sphrt may be rent red part 10 or compilely nompetent thus pre ent g ba k fres are anis malatigate accumite the arap fourpoin g of the deal 1 to to 1s n It pro te

that a portion of the good results obtained by thosugmodostomy are incident to the fact that the decorreal sphuncter is ablitted if cases of in testinal stass are subject to surgical treatment before the colon is so profoun liv altered as to be obviously, incapable of propul ive action upon its content and submucous secti in of the flexicacial principle or a plastic operation dividing all the oats of the bowel should serve as well if not better the color of the decorred to the color of the decorred to the color of the decorred to the color of th

Haman reports the ligition of the innominate riery for an union of the ubclaims in a 69 Seri of pitte tin which part of the clavice was re-extent the union mine tied with a hea yail, ligiture and the right common carotif tred with chromicate cargut. There were no complexate in following the cargut there were no complexate in following the difference of the control of the control

Murphy F T Choice of Ameritation Operating f r Abscess of the Lung Report of Two Lusse Operated upon under Local Ameritation 7 in hr 1 long 1 long Operated Upon Under Local American True hr 1 long 1 long Operated Upon In long In long Operated Upon In long In lon

The writer believes that as geons too generally he claided in con Menung the needs for the use of the negative and positive pressure methods of swerburch and Brauer or the intratrached in sufficion of Meltaer nel Nuce i distingui habrapij between intrathoricic operation ain which the free pleural cavity will orm v be opened and operations which the judges of the property of the p

The essential factors in operating for n n tuber culou abovess of the lung are con itered to be the correct largons a interference before the patient is so touce as to be beyond rel. I rainting subjournments on of the free pleural cavity and avoidance of a v factors which may tend to cause enter ion it in interchance to the many tend to cause enter ion it is necessarily only the probability of the present the first pleural cavity and avoid and the present th

The alue of stereoscopical \ray plates is mph ized as an aid in diagrow and the results with and without operation are compared. The need of pro-etting the ge eral pectral cavity from the lover content a emphasized

The substitute of the third where adher one of note at the abscream be drained most at indeposit by a two stree operation, and recomment that the rist stage the mucle fap be turned back and the nils recent if the light gratitude to the pression of thesons caused by them press pression of the stage of th

Local ansatisms is recommended because it in no way metrices with the operation and with it the dangers of the general ansathetic are avoided if a general ansathetic is used the intratrached insufficion method with gas and oxygen is recommended. Of z cases in which the abscess was not apply to the contraction of the contraction of the theory of the contraction of the co

Lilienthal H: Pulmonary Abscess and Bronchi ectasis: a Clinical Report T Am Surg Ass NY 9 4 April By Surg Gynec & Obst

Lilienthal s paper presents his experience and the conclusions arrived at from the study of 12 cases with 14 operations on 11 of the patients

There were 5 cases of bronchicetasis with various drainage operations followed by 4 improvements and 1 death 3 scute abscesses of the lung with 2 cures 1 extensive gangrene of the lung died 1 fetul bronchits taken for bronchicetasis died

There is also the report of an unfinished case of bronchectass of the right lower lobe in a child 4 years old, with resection of the entire lobe — con valencence was well established at the date of the paper. The cause of the bronchectass was the aspiration of a piece of nut one year before but in spite of the removal of the foreign body by brunches-

copy the appuration continued

The author calls attention to various details in
diagnosis and technique speaking strongly in favor
of the more frequent pre-operative employment of
the bronchoscope The conclusions based solely on

the cases in the paper are as follows

1 The differential diagnosis of true lung abscess

and suppurative bronchectasis is important
Radiographical study of each case is essential
Bronchoscopical examination is a valuable

procedure and should not be omitted

4 Drainage of a lung abscess by thoracotomy s

likely to result in cure
5 Drainage of large infected bronchiectases
may be followed by improvement but complete

may be followed by improvement but complete recovery is unlikely 6 Extensive thoracoplasty should be reserved

for those cases in which other operations have failed

7 Exploration of the pleural cavity and of the lungs by intercostal thoracotomy is feasible and ressonably safe

8 Extirpation of a bronchiectain by removal of the affected portion of the lung may lead to complete recovery but the danger of the operation is

g Artificial p eumothorax and Tuffier's extra pleural tamponade should be reserved for cases of pure tuberculosis

10 Intratracheal insuffication is a simple accurate and safe method of securing differential

12 Operations involving one lung can be per formed with inhalation anaesthesia Mayo C. H and Beckman E. H Visceral
Pleurectomy Tr Am S f An N Y, 1914,
April By Surg Gyace & Otat

Up to the time of Fowler and DeLorme, vancous persistons for the related of chronic components as the large cavity had been treed in order to obliterable exactly by collapsing the cheat well and without making any attempt to restore the function of the collapsed ings. The operations of Fowler and De Lorme have been accepted quite generally in Europe that have not received much attention from American but have not received much attention from American ducloses but 24 cases reported by American sur grooms in the last twenty years.

It is believed that in a considerable percentage of cases of chronic empyema the lung will expand to a greater or less extent if visceral pleurectomy combined with gridironing of Ransohoff is per formed In the experience of the authors, the oper ation is not as severe or as dangerous as the Schede operation Patients should be carefully prepared for operation by securing drainage at the most depend ent part of the cavity by reducing the infection to a minimum and the resistance of the patient to the maximum by vaccines The operations for this con dition cannot be made by rule but must be selected individually for each case, they are often best done in stages especially when the patient is in a debili tated condition It is advisable to try visceral pleurectomy first as some lung expansion is nearly always obtained If the cavity still persists the operations of Estlander and Schede or one of the modifications of these operations can be done at a later time to obliterate the cavity remaining. Four cases of vis-ceral pleurectomy are reported three of which healed primarily and in the other two thirds of an entirely collapsed lung as functionating

MacKenne K.A. J. Doubl and Anomalous Forms of Empyema a Preliminary Report on a Proposed Method of Treating Empyema with out Resort to Pneumothorar T. Am Surg As N. Y. 9.4 April. By Surg Gyac & Obst

The author reports in detail four of his own cases of double empyema which occurred during so endemic of indiaenta in the N rithwest in the year 1890. In all the cases either baiteral amultaneous thoseotomy or bistieral thoreotomy with a few interesting exact of anonalous ir man f impression are reported including gunshot wounds pathol wounds puttod empyemats following aspiration, and one case in which the paragonium westernamy was the estalogical factor. Thurly fully reported cases of double empyema are collected from the hierature as all control of the control of the case o

In the 34 cases in which the ages varied between 13 neeks and 40 years, aspiration was performed 15 times on the right side and 2 times on the left.

infransal treatment whereby the antenor and upper portion of the middle turbuste and some adjacent cells are removed. Many other cases, however do not yield to such irratment and tend to be obstuate notwithstanding the various methods of operation in present use. which are classified as (1) intransal and (2) extransal operations.

Most clausians and nantomusts are agreed that the intransast effort to enlarge the vicenty of the ostium of the sums rs attended with unnecessary rist. The external operations consist in removing the facial or orbital wall of the unus, or both white the more radical such as the Addisin operation removes also a portion of the mash process of the superior manifal and lachry and hore. These operations strive to obliterate the a sus and are attended with solve must disfinite terms of vicence accordant to the type.

of operation

The real issue in these cases is the establishment and maintenance of adequate drelange. This is difficult because of the antionucal relations in the vicinity of the outtoon. The author beheves that the principle of the kullian operation is wrong because the bony support afforded by the nasial process of the superior massila and lacingwal bone is trained and in the superior massila and lacingwal bone is trained as the superior massila and lacingwal bone is trained as the superior massila and lacingwal bone is trained as the superior massila and lacingwal bone is trained by the superior massila and lacingwal bone is trained as the superior massila and lacingwal bone in the superior massila and lacingwal between the superior massila and lacingwal bone is the superior massila and lacingwal between the superior massila and lacingwal b

may be satisfactory The steps in the operation practiced by the writer are as follows A small bony opening is made in the facial wall just above the nasal process a small probe is passed through the ostium into the rasal cavity and left there while by means of small curettes at the start and subsequently the use of burr drills, the neighboring anterior ethinoidal cells and the nasal cress of the frontal bone are removed then the thickened mass of bone which exists at the region of articulation between the frontal bone above and the nasal home and the nasal process of the superior maxilla are so thinned as to lea e only a th a shell This removal can be accomplished only by means of burr drills introduced through the nose with the burr in sight through the opening in the facial wall Furthermo e the writer believes that there is no obsection and that it is advisable e on when only one sinu is invol ed to break through the inter frontal septum and remove the same m mer the corresponding portion of the floor of that sinus The removal should include also a portion of the nasal sentum for a distance below the interfrontal septom By this procedu e a surprisingly large opening is obtained and an astrument entering either nostral can be passed into either sinu and swept across from one side to the other The external wound is closed By this mean chrome fi tule may be ented at once and the most obst n t yield readily

As after all operations upon the frontal states a certain amount of subsequent intranasal treatment is necessary in order to control the growth of granula tion tissue

In case where, as a result of previous operat one the bony structures above mentaned have been the bony structures above mentaned have been too uses of constant of constant of the structures above the excess product on the structure of the stru

Hartmann H The Gastro-Intestinal Mouth in Cases of Permeable Pylorus T Am Sorg A N Y 914 April. By Surg Gynec. & Obst

It is generally accepted that in the presence of permeable pylorus the gastrojejunal mouth is in clined to obterate santomically in consequence of its physiological usclessness. These two affirmations seem to the author to be mustakes.

2 A gastrogenast stoma well fined by mecons membrane with on elecration hatever and with no sear tissue remains pertneable forever. The occusion of gastro intestinal stoma has been observed as well in cases of pylone or subply loff; stemo sit (ar cases) as neases of free pylonis (1 stemo The obsteration results from formation of sear itsue (1 O) reginal absence of usino per primary development of an ulceration most frequentity of rectic organ at

the point of anastomous?

2 The function of the gastropiumal toma takes place even when the pi form is permenoble. Expenients on dops have above it ou that if the stoma is stunied on the excitace part of the stomach the contrary of the stoma has been made on the pilone antium the gastric content almost always passes through the stoma. These differences are expla end by the fact that the stomach has to be divided physiologically not one parts a cardiac part single reservoir where accretions act on the regarded alments a piptore, part a motor thrusting call examinations on the author's passents.

The suther summanzes brefly as follows (1) There is no more fes to be had of an anatomical obliteration of the gastroje; nal stoma in the use of a permetable policious than un any other case (2) The gastrojejunal stomata. In the case of permetable pylorus are physiol gically useful when they are esphibished on the pylorus cantrum

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# SURGERY OF THE HEAD AND NECK

# Head

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# INTERNATIONAL ABSTRACT OF SURGERY

IUNE 1014

## MONTHLY COLLECTIVE REVIEW

#### RECENT ADVANCES IN SPINAL SURGERY

BY CHARLES A CLSBERG M D \ZW YORK

DURING the past few decades the surgical treatment of intracramial disease has plevity of acted much attention. The completity of the foundation of the brain at the claused much of the brain of the brain of the foundations the claused mann features of its diseases. He made the fact of the foundation of the surgical treatment of the diseases of the spinal cord and its membranes. This was the more surprising because it soon became evident that the results of operative interference in spinal disease were far better than those obtained in intracramal surgery.

During the past few years, however the interest in spinal cord surgery has become reach the field has become widened the results obtained that elections better and bet feeling of pessmann which surrounded and hedged in the surgery of the central nervous system has changed into one of optimism in respect to the operative treatment of surgical spinal disease

It has become evident that special training and experience are necessary for successful work in this field but that for the special worker a spinal operation is not a very dangerous one

Technically there is little difference of opinion as to the manner in which a laminectomy should be done. The operation is usually performed under general anesthesia that it can be done under local anesthesia has recently been again pointed out by Heidenhain (1).

The osteoplastic methods described by Marion (2) Cavicchia (3) Bickham (4) have been well high forgotten for they are too time consuming and too complicated and are frequently followed by wound complications. The attempt has been made by several Italian writers and by A S Taylor (5) to deslop the operation of hemi laminectomy. The operation recommended by them consists of the removal of the laminae on one side only. They claim that a better spinal column is left and that the exposure of the spinal column is left and that the exposure of the spinal cord and never-roots is often as good as in the complete operation. It is clear however that the removal of the laminae on one side can not give as good an exposure as the removal of spinous processes and laminae of both sides

A wide exposure of the operative field must be obtained in every spinal of exposure for the cord tissue is more deficiale and exposure for the cord tissue is more deficiale and exposure and the following to it is done more easily than it almost an input of the brain in an intractanual operators. That of the brain in an intractanual operator (include) (6) A range (7) Von Luschsberg (8) France (9) Cushang (10) Auctiture (11) Acober (12) Llsberg (13) etc.) perform complete lammectomy Maberg (13) has paid especial attention to the functions of the spinal column after complete lammectomy and has shown that in the majority of instances, the normal mobility of the vertebral column is completely regained after a lammectomy may have a field of uccludines in those cases where the spinal nerves of one side are to be divided for pain or spa tucty

#### SPINAL FRACTURES

The surgical significance of a spinal fracture depends to a great extent upon the injury that

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mug and dissociation of sensations may occur with estramedullary timons and root pains are not so rure in intramedullary disease. This has been pointed out by Schultzs (2x) Rophe (32) Robmann (33) and others The \text{The Nash State of the Magnoss of spinal timor although absorption of bone may occur with estramedullary and extradural growths. The fluid obtained by lumbar puncture is often of a yellow color with an increased amount of globular and a pormal number of cells (Nonne (44) Kaplan (35) Raven (56)

A number of authors have warned against too great a rehance on the Wassermann reaction for a patient with lues may also have a sminal tumor

(Castelli (37) Elsberg)

The results that can be obtained by the opera tive removal of spinal tumors vary with the location of the growth its connections with the cord and with the duration of and the number of the symptoms. The patient should be referred to the surgeon early before cord symptoms have long existed Then a complete recovery can occur as in cases reported by Rothmann (33) Van Gehuchten and Lambotte (38) Hecht (39) Frazier (40) Babinski (41) Pussep (42) Martius (43) Kennedy (44) Clarke (45) Bovaird and Shlapp (46) Hunt and Woolsey (47) and others If a paraplegia has existed for a longer time—six months to two years-the outlook for complete recovery is not so good Considerable power may return in the paralyzed limbs, but more or less spasticity weakness and sensory disturbances will remain as in the patients of Rothmann (48) Pussep (42) Rotstadt (49) Schultze (31) Nonne (34) Redlich (50) and Sato (51) the paralysis has existed for a number of years. no improvement will follow the removal of the tumor (Van Gehuchten and Lambotte (38) Pussen (42) etc.)

Up to within the last few years intramedulary growths were considered hopeless, but it his been shown that localized growth occur within the cord substance and that these can be removed if the proper method be followed Successful operations have been reported by Ropic (32) Von Esselberg (32) Schultze (31) Elaberg (34) Elaberg (34) Elaberg (34) Feerster (53) and others Some good results were obtained by ministion of the cord and peeling out of the tumor but usually such manpulations have caused a transverse lession of the cord in the case of Ropke (32) a tumor was found which as partly entrangulally. There were two extramedulary masses which were connected by an intramedulary growth. The cord

was incised longitudinally the entire growth easily removed, and the patient was much improved after the operation.

In order to do away with all mampulation of the cord, Lisberg and Beer devised the method which they called delivery of the growth by extrusion. In this method the cord is incised near the posterior median septim down to the tumor and the muscles fasca and skin closed. The tumor is gradually pushed out of its bed in the cord so that at the second operation about one week later it is found to lie outside of the cord tissue so that it can be removed without mujury to the cord. This method of extrusion allows the processes of nature to push out the tumor in the attempt to equalize pressure conditions. The authors reported two cases and

with marked improvement in a number of in

Patients with malignant disease of the bodies or arches of the vertebræ should not be subjected to operation or if malignant disease is found the operation should be concluded as rapidly as possible Rarely can the disease be radically removed relapse or recurrence is the rule. The patients usually stand the operative interference badly and collapse upon the operating table is not infrequent. The spinal cord symptoms are often due to a transverse myelitis and not to a compression of the cord by the new-growth. Therefore the attempt to relieve the symptoms by a laminectomy is a failure in most instances the operation is not even a palliative one (Van Gehuchten and Lambotte (38) Pussep (42) Rotstadt (40) etc )

#### INTRAMEDULLARY SURGERY

Rothmann (48) has published an interesting paper on the future of intramedullary supercy and has given a good resumé of what has over a good resumé of what has only have intramedullary growths and foreign bodies been removed from the substance of the spinal cord but the cord has been incised for irremovable infiltrating tumors (Cushing (56) Elsberg (57)) an incision has been made in the posterior columns near the posterior median septium as a decompressive method in cedema secondary to trauma (Allen (22)) in gliosis (Elsberg (57)) for the drainage of hydromyelia (Abbe (58) Elsberg and others) and intramedullary cystis.

Spiller and Marin (59) have suggested that the anterolateral tracts can be divided in order to relieve persistent pain due to malignant disease. There was great improvement in their patients as well as in a putent of Becr (60) and Forestre (6). The cord is exposed in the swall manner and the anterolateral according tracts which convey sensations of pain and of temperature are divided by an incason of about two milliameters depth. If the operation is carefully done and not too much of the cord divided no symptoms are caused by the inci ions excepting a loss of all sensation for hot and cold and f r path below the feet of the fine ion

DIVI ION OF POSTERIOR SPINAL ROOTS FOR SPISTICITY FILL AND VISCERAL CRISES

A totally new field for spinal surgery was opened up a few years ago (1008) when I oerster (62) published his first paper on division of the postenor spinal roots to relieve spastic conditions of the extremities. He hased his procedure upon the following facts Mu-cle tone is produced by reflex stimuli from the pumphers to the cells of the gray matter of the qual cord and a con trolled and regulated by inhibitory influences from hi her centers Increased pasticity of muscles will therefore occur whenever the inhibitory impulses from the brain are cut off by disease of some part of the motor tract. In order to dimini h the en uing spasticity it is only necessary to cut off some of the impul es from Many writers have put li hed the perighers reports of cases treated according to locr ter s idea and 1 ocreter (63) ha collected a large number of cases which have been subjected to posterior root division. He also reviewed the subject of divine a posterior panal roots for the relief of painful affections, and based on theo retical con iderations aggested posterior roat section for the control of the visceral criscs of tabes

The state of the s

Rather too many than too it would be divided, although the division of too many roots may cause a flactid paralysis. I oerster has

collected 150 operations for spastic conditions with is deaths from the laminectors. The results of root section are better in the lower than in the upper extremities. I or the lower limbs the second third fourth, or fifth lumbar and the first or second sacral roots should be cut. I viension at the knee is controlled either by the third or fourth posterior root, the operator must determine ly electrical stimulation of the exposed roots which is the one that control this extension and then avoid that root Tachudi (64) saw great improvement after division of the second. third and fourth lumbar and first sacral Clarke and Taylor (65) advise some combination of the fret second third fourth, and fifth lumbar and the fir I and second sacral for the lower and the fourth fifth and seventh cervacal and first dorsal f r the upper extremity Cupeo saw great improvement after section of the third and fourth humbar and first and second sacral

The pa ticity is often much lessened at once (Forester (66) Culcke (67) May (68) Rausen buch and Scott (69) etc.) but usually improvement follows slowly after massage exercises etc.

If too fee rooty are thousage validate vatery and provided the successive states are content, will recur if nove them ded successive roots have been cut some sensory disturbance, accordin to Shermagtons is an will occur. Taylor has cut five rot in succession without observing any sensory disturbance and others have failed to ful sensory loss after division of three successive roots.

The operation of division of posterior squal roots for the relief of pain is an old procedure which was oriented by Dana and Abbe but the results in the past have been unsatisfactory and only v f two of the patients operated upon within the past two years have been relieved by the nutrifered.

The third indication for posterior root section according to Forest r are the visceral crises of takes and Lourster (61) has collected 63 operations with 6 leaths Of the surviving 58 patients there was immediate relief in 56 but the symptoms on a returned in 18 cases At first Poerster advered that the eventh to tenth dorsal roots should be cut on each sale but later he declared that all the roots from the 11th dorsal to the twelfth dorsal had to be divided. The more exten we the root section the larger the laminectoms that has to be done and when a large number of root has e to be cut very many lamine ha e to be r moved. Great relief has been observed where only a few posterior root ha e been cut (Bramwell and Thomson (70) seventh to tenth dorsal-complete relief for fourteen months Frazier (71) seventh to minth dorsalcure Foerster (72) seventh to tenth dorsalrelief for three years)

For posterior root section most operators prefer a complete laminectomy and divide the roots intradurally (Foerster (63) Von Angerer (73) Lothessen (74) Panche (75) Winslow and Spear (76) Frazier (71) etc.) but Taylor (77) prefers a hemilaminectomy Guleke (78) recom mends that the roots be divided outside of the dura but the objection to this is that it is often difficult to separate the sensory from the motor root in that location Wilms (70) suggested that the roots for the lower extremity should be cut at the conus where they he close to each other but the difficulty is that recognition and identification in that location is often impossible Franke (80) advised that the intercostal nerves be avulsed but this has given few satisfactory results although extensively tried by French surgeons (Mouriquand and Cotte (81) Sauve and Tenel (82) Cade (83) Ingay (84) Belin and Mauclaire (85) Leriche (86) etc.) Secard and Blanc (87) declare that Franke's operation is of no value

Posterior root section has been tried for a number of other conditions Mayesina (88) claimed to have seen great improvement in a case of erythromelalgia after division of the fourth and fifth lumbar and first and second sacral posterior roots Leriche (80) suggested that it be tried in herpes zoster but Secard and Blanc (oo) obtained no result in the patients upon whom they operated the operation has been tried in spasmodic torticollis without success It has even been suggested for Parkinson s disease and ordinary paralysis agitans (Leriche) In most of these affections the operations have been done experiments cause and they have therefore usually been failures

During the past decade many experiments have been made to determine whether it is possible to anastomose spinal nerve-roots and Frazier and Mills (91) have attempted to relieve a paral ysi of the bladder in a patient by an intradural root and tomosi They divided the first lum bar root intradurally and anastomosed it to the third and fourth sacral Eight months later the patient had improved enough to dispense with the unital which he had note constantly before this time. The result was therefore very satisfactory although it can not be denied that the improvement might have occurred even if no root anastomosis had been done. The operate n was performed in months after the innery Cadwalader and Sweet (92) approached the subject experimentally but in their animals they failed to observe either a return of function or a regeneration of the nerve-roots which had been du ided

Finally mention must be made of the decompressive aspects of the operation of laminectoms The relief of pressure after the free removal of a number of spinous processes and laminæ must be of undoubted benefit in a number of spinal conditions associated with increased intraspinal pressure Thus great improvement has followed ammeetomy for old fracture of the spine with narrowing of the spinal canal for pachymening itis and for arremovable tumors pressing upon the cord

Barley and Elsberg (03) have called especial attention to the improvement which may follow a laminectomy where no increase of pressure has been found and report very satisfactory results in a number of cases. They suggest that the improvement may be due to the entrance of air into the dural sac or to changes in the spinal circulation

The above review of the work that has been done in spinal surgery during the last few years will show that many advances have been made and that much has been accomplished. There is however much that remains to be done and the surgeon who will devote himself to this special field will find many problems awaiting solution. He will meet with disappointments but will have not a few successes. To the advances in our knowledge of spinal disease and its treatment the surgeon must contribute a large share We believe that the statement of a great physician may with justice be applied also to spinal disease Die Mede-in muss mehr chirurgisch werden — internal medicine must become more surgical

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# ABSTRACTS OF CURRENT LITERATURE

# GENERAL SURGERY

## SURGICAL TECHNIOUE

#### ANÆSTHETICS

Henderson I's Fther Angesthesia. St Ps I V J 1914 By Surg Gype & Obst

Statistics show that either as an anasthetic is superior to all others in safety and range of apphica ison with it the surgeon can work with more case at a rapsitis; because relaxation can be secured. If the patient is carrielly watched and not disturbed while doing well the anisethent will seidom while doing well the anisethent will seidom with alarming condutions. After the confidence of the patient is guared surgical anisethem orinionally may be produced by the drop method with either in from three to five munities.

Suggestion plays an important part in the indiction of annishman The management of the gas has much to do with the success or fa lure of the annishment the depth of annishmen depending upon the kind of operations and its stage. The patient should never be kept more deeply ander the anxiether: than is consistent with the work of the anxiether: than is consistent with the work of the operations. Payerence in the Mayo Chinac does not indicate that shock is labile to be produced by light either anxietheua.

The does of ether should be medicanal and not toxic. For operations the duration of which a erages about forty minutes patients usually require between three and four ounces of ether to prolince anesthesia and to carry them through the operation. Preliminary medication is used by a

relected cases and not a a routine
The safety of other w is own un

The safety of ether we so was unadong for so it did not kell, its adm materialon was intrusted to the most uncompetent purson. Then c me quitous outden in ficent surgical nearther at dest unless combined with loc I surestheria which next to ether has the widest field of usefulpiers I r the administration of introd order a physic an with experience should be set, ted

In articles in which comparisons are mad between intronsorded and the conclusions reusually drawn from results obtaine it is the spect with the former ansatheties at these. It is next method another than the state of the state

Zweifel E.: Clinical and Experimental Study of Nitrous-Oride-Oxygen Ameritheia (Klonich penne telle V suche mit Lachgas-Sauretoff \ar Lose) If steeler f Gebreich a Gradt 1913,

REZVIAI 546 By Zentralbi I d ges Gynak u Geburtsh d Grenzgeb

The author describes to experiments with hear apparatus with good results and after experiments with Gritisch a superatus which ga e as good crealist and was much changer. He comes to the following conclusions. It is possible to early out a small operations without pain with either pure introuv-node of introus-oude orygen annesthessa. Nativous oude armetiches a with or a thorit only one annesthessa. Nativous could be armediated as a market of the superaturation on the previous examples. It is the administration on the previous example of 0.5 to 10 veronal and by an injection of morphine scool-polarime just before the operation is begun. It is the pleasantest method of inhalation assumethers in the patients and sich the affect. If the annesthews insufficient it can be continued at the continued

Ballour D C The Use of Novocame as a Local Ansesth tic Si P I M J 19 4 x 83 By Surg Gynec & Obst

That it use of local anasthema is growing in appulantly in this country noncealty appurer? This is probably due to the fact that superior derivates of and substitutes for come have been placed on the ras ket. The more familiar of these are accuses stor, for tropococcuse nonoccuse ures and quante hydrochloride. No occuse is rapidly soluble and the solution can be boiled without of stroping its effective res. In personne occur the site of the solution can be soluted as the solution of the solution of the stroping its effective res. In proposition of the solution of the

The ad stage bissaned in the use of this prepriation are definite and important the most 8 infactory of who h is that the solituon—one half to one per cent — can be used in almost undunated quant ten without fer of all fit is This permits and a lifetiment of the open run beld with literal and a lifetiment of the open run beld with literal and lifetiment of occas is except when used in such large dilution that in analysic to operate are designed.

ent to a considerable extent on the ordema produced and not to the cocaine in actual use. The fact that the not ocaine solution can be boiled without effect ing its analgesic property is a detectled advantage We have not had sufficient evidence to show that healing of wounds is definitely retarded by the in filtration of the trisues by the solution

The use of not ocame is indicated in (1) Ligation of arteries purticularly those of the thyroid removal of small tumors of the breast superficial cysts lipomas, circumcisions paracentesis external hæm orrhoids drainage of abscesses excision of isolated glands and specimens of tissue for diagnosis tonsil lectomy in the adult and various operations on the eye pose and throat (2) cases in which a general inhalation anaisthesia is preferable but might fo some reason, be deletenous to the patient class we have patients with recent acute conditions of the lung alcoholism nephriti my ocarditis etc. or any complication which renders ether not necessanly prohibitive but rather inadvisable. Under these circumstances herma hydrocele varicocele tuberculou epididymitis and similar conditions are very satisfactorily operated on under local anas thesia Operations on the thyroid are often neces sary with an unstable nervous system and marked degenerative changes in the heart and Lidneys In these cases also a local anæsthesia is preferabl (3) A group relatively small is composed of those patients who request that a local anaesthesia be used Few individuals voluntarily choose to have any

operation however slight done under cocaine The advantages in the employment of novocaine are almost entirely on the side of the patient all though unfortunately freedom from pain in the infiltrated area is not insured for any length of time following operation as is claimed for other substances. Interference in the heading of wounds by the devitalization of the thruse has not been observed in cases at the Vayo Climic to any appreciable degree. Post-operative naises, vomiting and thirst are much less frequent in occurrence than after either anexthesis, every in cases of severe hyperthyroidism when the gastro intestinal distubance; a part of the desease.

The methods the Mayo Clinic has found attafactors in preparing and using novocaine are asfoll w. A utherect quantity of 1 one half or one per cent solution is made by dissol ang the novoaine in six de water. This solution 1 builded for a minute or two n some instances and not at all in others with no lefinite variance in results noted. Enough advendalin is added to the solution to make a strength of 1—1000. Thymol nor any other pset atteraged is not employed to render the

olut on table a fresh mt ture alway heng made In ge cral the production of a local cridema llowing a few minutes for the solution to take effect and incising in the ordematous area has been found safe and satisfactory. In the more extensive type of operation morphine, figrain either alone or in the case of the hyperplastic gotters comb ned with /rsoc gr d scopolam se has been given. In the majority of cases the constitutes a very im necessful use of local nesthers; of this type.

## SURGERY OF THE HEAD AND NECK

#### HRAD

Kleemann E Experimental Study of the Lifect of Extract of Hypophysis from Annuals Hatt II e Been Ca trated or Had the Corpora Lutea Removed (E penmentelle Expenses ber de Wirkung on Hypophysene trait kastnert and der Corpora I tea beraubter Tree) i ch f

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By Zentralbi I d ge. Gynal. Geb rish d Grenzgeb

The influence of the hypophysis in raising blood pressure is well know as well as its relation to the sexual organs. The author desired to find out whether the effect of evtract of hypophysis on the penpheral blood vessels would be changed if at were taken from normal namisk (riabbits) that had been custrated or from pregnant o es from which the corpora lutes had been removed.

He applied the tests to frogs and reports the results in deta! The ever ct of hypophysis from castrated as well as from normal animals caused prompt vasoconstriction but that from the pregnant animals was unconstant in its action sometimes diating the essels sometimes constricting them With the extract from animals deprived of the corpo a lutea he got constriction f the vessels jour tim also a ma ked dilatation four times

The animals from wh ch the corpora lutea were removed h do been pregnant for a greater or less time and the pregnancy was a terrupted by the removal of the corpora lutea. The blood pressure e perments warm blooded animals were not sufficiently numerous to draw conclusions from Place experiments probably explain the failures in Common theorems of the prophysis where no associate the common terrant of the prophysis where no exponents animals that have recently been pregnant float have been astrated at least unless a considerable time has elap of since the central to the property of the

#### NECK

Schmidt J E The Csrotid Gland and Its Turnors (Best ge ur ken tan der Gland is carotica und thre T moren) B u t kl Cku 913 kensym 30 By Zentralbi f d ges Chu u i Grentgeb

The author tried to determine by experiments on cats whether the bilateral extirpation of the carotid gland threatened his whether unlateral extrapation caused hypertrophy on the other side and whether autotransplantation was possible. He was led to undertake these experiments by a case of histerial tumor of the carotid gland that appeared in his clinic. To accomplate complete removal the carotid arrety had to be extrapated at the point of higheration.

As the animals could not stand the simultaneous blaieral remoyal of the common carotids it in mosides were operated on at intervals of it days. After the second operation three cuts remained per manently in good general condition one died after 14 days of pneumonis one after no days of inaution Blaieral removal of the carot of giand therefore

does not cause death or cachesia

The glycosuma observed by Vassale after externation was caused by the other anasthesia. Anasthe tized normal cats howed sugar in the tinne to the same degree as those that had had the gland removed The sensiti enest to adrenalin was not any greater in the animals that had been operated on than in the normal opes a circumstance that relutes Fru gom's belief that there is antagon in between the caroted gland and the adrenals Caroted glands transplanted autoplastically soon degenerated After externation on one sid there was no hypertrophic change in the other from which it my be con eluded that the glan I has no pecific function and rudimentary organ His case h story follows ing tumor for so ; ar which had grown fa ; r f r three month and cause I a marked lecter e in weight Unde the angl it the left jam there was a tumor the ire faben gg lo the right at the before tuon of the caroted on a large as a nutmer Ther mere signs of tuberculosis at the apex of the lung The cum record not be isolated from the ves sels so the arut d had t be resected aft r which the commo ar tid w un ted with the ntienal by In derlen a regula minte. The recovers we up yent ful Mer th operation there were no cerebral supp toms and no muchetic emptoms seve neeks later the right gland w removed a thout injury to the vessely follow d by recovery I here was no albu mi and no ug r in the urine afte the oper tion On exam nation a year later the put ent was free from recurrence, and a good general he ich Wood t ate atrophy of the left halt of the t ague and devia tion to the left when it we ext nded showed that the hypoglos u had beer njured tith first opera tion

D2 Costa J C Personal Experience with Tumors of the Carotld Body N Y M J 9 4 2022 31 By Surg Gyne & Obst

The ambor has turned from a response which bedd in 1000 that interference in carotic body tumous should be undertaken when across ancerolly malagrant has cere as present the puttings an attempt the consequences of which might be gave.

He now believes that when the caroud body appaipable or vasible it is pathological and will penably grow larger will eventually become malignant, and phould be removed at one of H the times has reached a size which indicates "functional trouble or evolution of apparently malignant character the time is probably too late to obtain a curr The operation and results are highly penlogs.

lie reports a case of the carly type operated on which was well fourteen months afterwards

The history description and post mortem find ings of a case of bilateral tumors in which he did well against operation on account of the probable great involvement of nerves and sessels, a given

His conclusions are that at all, as follows

1 The carotid body exists more frequently than was formerly supposed Its function is unknown and it should undergo

atrophy at or soon after puberty if it does not atrophy it will probably enlarge and such enlargement abould be regarded as a tumor

Tumors of the caroud body are known as

3 Originally annocent the growths pursue a long course Rapid growth: exceptional until years have passed then they take on a rapid growth this signific malignancy. The malignant change is sarromatious with rare everytions

4 Growth is almost universally unilateral the case caled being the only bilateral one found

3. The growth is closely associated with vessels and neares and as more retrocaround than intercaround. It has a large blood upply carried by the ligament of Valeyer and any injury to the body causes profuse between the large list is lations reader any operation difficult and post-operative complications probable.

6 Involvement of associated nerves will produce symptoms The tumors are lifted by the puisating excepted afters they are movable laterally but not up and down The author had no case of expanule pulsation.

7 Operative interference is comparate dy sale shee the immor is recent and small but to grave port when the timor is old and of especial danger and the property of the sale of the sale and the sale that legation of the common carotid or of all the carouds still be necessary in the removal of the ground lapury and removal of important neric structures will be almost use odeble. Early operation uppermit its dissection from the carotids or with those the carotide of with those the carotide of the sale of

Wilson L. B. A Study of the Pathology of the Thyroids, from Cases of Tozic Non Evophthal raic Gotter J Learn 94 Stay 94 By Surg Cyper & Obst

Wilson presents the results f a somewhat in tens to tudy of the thyr ds from pproximately equal numbers of cases in each of the following groups: (1) 431 thyroids from cases of true expitihalmic goster (2) 373 thyroids from cases of non foure 1 e simple goster and (3) 374 thyroids from cases of toruc non evophthalmic goster. The results of the gross and microscopical examination of the glands are tabulated in parallel columns abouing the percentage distribution according to the author's histological classification into any distribution according to the author's histological classification into any distribution according to the substitution of the color of the property and repercentations adendo nata and diffuse colloids. His general summary of the obsert attons follows.

n The pathology of the thyrud in true exophthalams golter is essentially a primary par enchymatous hypertrophy and hyperplasa 1 e an increased amount of functionating parenchyma associated with an increased absorption The

process is an acute one

2 The pathology of atoxic simple goiter is marked essentially by atrophic parenchyma de creased function and decreased absorption. The

process as a chrome one

- 3 The pathology of touc non evophthalmen gotter of Plummer's chuncal group 2 1 e those resembling exophthalme gouter 10 nmmer's chuncal parenthyma through regenerate processes in atrophic parenthyma of the formation of new parenthyma of the fortal type with an increase in each instance of secretory activity, and of absorp too. The poce 5 % a chrome one but suffi sently active to cau e the patient to consult a surge nearly change to those patients in chi ical group 1 artire than do those patients in chi ical group?
- 4 The nearer the cases of clinical group 2 toxic non exophthalmics, approach in age and symptoms true exophthalmic goiter the shorter the duration of the period of goster before operation and the smaller the aver ge weight of the gland at the time of its remov 1
- 5 The cases of toxic gotter of clinical group 1 1 e those which the symptoms are of the cardiovascular unets much more closely resemble

cases of simple gotter in their pathology in all re spects than do the cases of chinical group 3. A larger number of them are of the colloid gotter type the chlargement of the thyroid has existed for a longer period before operation and the portion of the gland removed is materially larger than in those cases of chinical group?

6 Finally it may be stated that all the above puthological evidence points to a constant relative a sociation of increased secretion and increased absorption from the thyroid proportional to the degree of toucity on the part of the patient. We have as yet no absolute proof that such secretion and absorptions is the cause of rather than coordinate with the 53 mptoms, but the presented evidence strongly points to that conclusion

#### Lewis, W. H. Juvenile Hyperthyroidism Si Po | M J 1914 xv1 91 By Surg Gynec & Obst

During eight years ending January 1 1913 only five cases of evophthalmic goiter occurring in children under 10 years were operated on at the Mayo Chine. This group of exophthalmic goiters is untereating in that the physiological processes of child hood differing from those of luter life may have some bearing on the type of duesase.

The cases all presented exophthalmos and tachy cardia of decided extent mild irritability was present in four tremor in the ea and a sometor disturbance of the skin in one. The average length of intoxica tion was it months and so days. All these children wer, quite active and e cept for the eyes were not apparently inconvenienced.

The average adult case of exophthalmic goiter with exophthalmos of a year's standing has marked ge eral damage of more or less extreme degree

All of these cases obtained prompt and to date, complete relief by operation A double ligation was performed on three pritents and a partial resection in two cases Experience indicates that ligations are entirely satisfactory.

## SURGERY OF THE CHEST

### CHEST WALL AND BREAST

Eden R Surgical Treatment of Pulmonary Tuberculouis Especially Collapse Treatment (Bett tage ur charusachen Beh nedung der Langen tuberkulose nier besonderer Berucksichtung der Kollapatherapie) A & H & CA & 9 3 cm 73 By Zentralbl f d ges Char

Eden reviewing the development of lung surgery notes that Mosler and Pepper's nigection of diston feet about 19 per surgetion of diston feet and the second section speed method from the second section speed much nor did open treatment of ca erus give satisfactory results: Amputation of entire lobes frequently failed from reflex effects from branches of the wags bing avolved at the his from infect on

and uncertainty of the closure of the bronchi and from penumothorax and emphysems of the mediasti num and skin. This operation is justified only by malignant tumors and purulent processes in special locations.

Freunds operation though it has met with success in many cases as not generally recognized Vany think that is ght affections of the aper may be cured in other away. Artificial pseumothors: by the completest possible collapse of the lung creates or datons favo able to recover; if this fail thoracoplastic operations may be undertaken. Eden has tested the different plastic operations of the thorax on dogs and gives his conclusions as to the degree of collapse obtained by the varon procedure. Limited resection of the ribs at any part of the thorax only causes narrowing of the thorax and retraction of the lung at that particular place—riless no effect on other parts. Resection over the lower lobes does not influence the upper ones and near teras. Antilury resection has intitle effect and has injurous by-effects. Extensive parametrichm and parameterial resections, gives the best results. Competer collapse of the lung is obtained according to Eden only by the extensive Braner Frendersh plastic operation favolving the upper ring of the thorax. The method to be followed depends on the loca-

In method to be individed depends on the location kind and degree of the tuberrulous, but it should be noted that according to Friedrich the case in which the most improvement took, place almost not the properties of the properties of the case of the resection was performed. The dangers substituted these extenses resections theirly the fluttering of the chest wall and mediastinum are best avoided by operating in several stages.

#### TRACHEA AND LUNGS

Neyer W Bronchiectasis T Am S g Ass N Y 1914 April By Surg Gynec & Obst

The author's aim is to give a picture of the present status of this interesting discase in all its details and phases as heretofore no exhaustive treatise has appeared in the English language on the subject. The pathological anatomy enology ayingtomatology, diagnosis and indication for operation

are thoroughly gone over

Regarding treatment it may be said that bron chiectasis is to day a surgical disease inasmuch as medical, hymenic and specialistic treatment by the lary ngologist can merely alleviate some of the symptoms but cannot cure the disease Still it must be considered a borderland trouble becau e after operation the patient should pass into the hands of the internist and laryngologist for further treatment. It must be borne in mind that bron chrectasis is an affection of the bronchial tree not of the pulmonary parenchyma and that therefore methods which have proven of benefit in tuber culosis cannot have the same effect in this disease Larger cavities of the lung produced by the confluence of a number of maller ones are of course best treated by a free incision pneumotomy as in pulmonary abscess In localized tro bles a cure has been observed in a number of cases. The principal treatment is represented by the so called prolapse-therapy. This can be done in various ways. Compress on of the lung by means of gas fat tissue or plombs thoracoplasty and phrenic otom. Thus it has been shown that in somewhat advanced cases insuffiction of the pleural cavity

with nitrogen is absolutely useless Somewhat better results are promised by the loosening of the lung in conjunction with costal pleura from the endothorace fascia (neumolysis), and filling of this cavity with a transplant of fat issue or omen tum kept in cold storage (Tuffier) A parafilm plomb often 500 to 1500 grammes in weight may also

Thoracoplasty with the resection of a number of ribs has been found to give good results in a

certain number of cases

The loosening of the lung from its adhesions with
the pleural cavity and fastening its base further up
on the diaphragm group the complementary space
a change to close by examination.

a chance to close by granulation has been found of benefit in one case by Garre Sauerbruch and Bruns method of ligating branches of the pulmonary artery which has been done seven times by him and three times by the author of the paper produces marked connectivetissue formation in the affected lobe and firm ad hesion between the pulmonary and costal pleura. thus allowing the lobe to be compressed by thora coplasty to be performed later on However in not a single case was a real cute obtained although expectoration was reduced 1 to 3 ounces in 24 hours The quantity of this expectoration may be still further reduced by reduction of the fluid in gested (thurst-cure) and the character of the expectoration further improved by the inhalation of superheated medicated a r with the help of the hot-air douche or by the direct application of flads blown into the bronchi by means of various apparatus

Only the removal of the di eased lobe or lobes of the lung—pneumectomy—can really care these patients and the efforts of surgeons interested in this chapter will certainly have to be continued in the direction of overcoming the obstacles to this radical interference which however at least f x the present, must be the last resort

There are eight pneumectomies for bronchiectasis on record with a mortality of 50 per cent

n record with a mortant) of 30 per cent

## PHARYNX AND ŒSOPHAGUS

Green N W An (Esophagoscope with Direct Outside Illumin tion Ass Surg Phila 014 hx 195 By Surg Gyncc, & Obst

An esophaguscope is described which was to cerved and used by the arthor such the date (1) of obtaining a trong projected illumnation with a minimum of light refleves (2) of having electrical connections as aimple as possible and outside the the and (3) to be able to sterilize the entire in strument except the ocular and electric light Pentirs VI Cass.

## SURGERY OF THE ABDOVIEN

### ARDOMINAL WALL AND PERITONEUM

Hartmann J Sensitiveness of the Peritoneum and the Abdominal Fascia (Zur Sensibilit t des P ritoneums und der Bauchfascie ) Mis che m d B h sch 1913 iz 2729

By Zentraibi f d ges Chir G enzg i G enze b

The author in order to determine the relative sensitiveness of the different human tissue had himself operated on for an umbilical hermix without

angethesia. In this operation he obser ed that the laying bare of the fascia when done with a sharp kmie was almost painless but when the scissors were used there was pain. On cutting the edges of the Jascia the pa is were similar to those of an electric shock they appeared in a circle around the ring of the hernia and then irradiated to the left and downward toward the penis. This relative appearance of the pain which was the same at whatever place the fascia was cut he regards as typical for fascia. He says that the sensiti eness of the panetal peritoneum was much les than that of the fascia Ligation of the omentum was only slightly namful and the sponging of the tissue was much more painful than the Lnife. He belie es that a man with strong will could for the sake of experiment have his appendix removed without unesthesia which would give valuable information in regard to the sensitiveness of the inflamed

II rano, T Practical Experience in the Use of Horse Serum to Increase th Resistance of the Peritoneum t Infection (Uber die praktisch Erf hrungen op Anwendung des Pferdeserums Resist m brung des P t n ums gegen I f k tso ) De isch Zi h f Ch 193 c x 55

peritoneum of the abdominal cavity

tso ) De tsek Zt k f Ck 19 3 c x 5 5 By Zentralbi f d ges Gynak u G burt h s d Grenze b

The author's work is a further contribution to the attempts to increase the resistance of the pento neum by creating a leuco ytic reaction non pecifi horse serum was inject d intramus cula ly 1 44 prits t lults were gi en 400 children half as much It was used exclusi elv in abdom nal lise es to f which were n t oper ted on but the ffect of the serum in these cases was not definit In continuou severe i fections it had o result but post operativ ritations of the peritoneum t had a favorabl effect. The author thinks he is just ned in secreting that the jection of horse serum in r ses the resist ce of the perstoneum an i h recommend t as an adju ant and preve tive fi fection K L TO

Credé B Antiseptic Treatment of Perit nitis (A taspt he B ha dl g d P raton ta ) W B Zent iblidge G al G C burtsh d ( renzerb

The th recomme d th treatment of diffuse periton t b a method which he has used f 1 n

years and by which he ha decreased the mortality of his cases to 28 per cent The method consi ts in drunage of the abdominal cavity without preceding eventration or impation by means of silver gruze drains in several directions. Local and general di infection i accomplished by pouring 20 to 50 gm of a one per cent collargol solution into all the diseased parts of the abdominal cavity and on all the intestinal loops and general sepsis is combated b) putting two or three o of collargol tablets in the gauze tampons These tablets act energetically b) bsorption as intravenous injections He also gi es intramuscular injections of enna after the operation and cives salt solution abundantly sub cutaneously intravenously and per rectum by the drop method He adds so com of a 10 per cent calodal solution to every 500 ccm of the salt BLEZE GFR solution

I ebedeff G I Menge a Radical Operation for Hernia of the Linea Alba (Radikaloperation d r H rase linear that nach M ge) Zisch f Geb i h

# G3 dk 1913 in 1541 By Zentralbl f d ges G3 nak Geburtsh d Gren geb The patient was a 38-year-old II para whose last deli ery h d been 5 years before After the

first deli ery the patient had noticed a slight swell ing to the left of and below the umbilious. After each succes we delivery it became larger and at the time of examination was as large as the head of new born niant There were attacks of severe

i in nd a rise in temperature. The operation onsisted of a transverse incision through the highest point of the herma cm long the hern al sac was freed and the perstoneum opened - the content of the h mn was found to be omentum and in t the The hermal sac and atrophic tissue togeth r with some skin w re removed and the edges f the rectus muscles were laid bare an I removed from their heath The posterior aponeurosi was troph c The suturing was done in three layers viz (t) suture of the peritoneum in the longitu dinal direction ( ) suture of the rectus muscles in the longitudinal direction (3) the anterior leaf of the aponeurosis was cut transversely and sutured

Landmann L dmann h. Venge s Radical Operation for Umbilical Subumblical Fpigastric, and Post Operati Hernia of the Linea Alba (Ube due Radikaloperation der mbilicalen b mb bealen eput trischen u d postope at en H. mu d ba alba bach Venge) D cri its

He ling was by first intention

Heid berg 10 3

By Zentralbl f d ges Chir 1 Grenzgeb Ten years ago Menge empha ized the advan tages of uniting the rectus sheath tran versely and the muscle vertically. To avoid weakening the mi ili e by the pitting of the anterior sheath of the rectu he proposes a modificati n

Menge's typical operation is as follows. Transverse skin mersion laying bare and trimming of the hermal ring tying off the sac transverse lines sion through the anterior sheath of the rectus, and shelling out of the muscle then a vertical incision through the posterior sheath of the rectus and the perstoneum vertical auture of the penioneum alone or with the posterior aponeurous union of the rectl in the middine and transverse suture of the fascis and skin He has used this operation in his climic in 58 cases 6 umbilical herman 21 herman of the lines alby one of which was not operative in a cases hernix of the lines allia together with one of the umbil cus in one case of umbilical herma associated with epigastric bernia in the other o cases there was only marked disstants of the rectus muscle and su 7 of these cases there was a decidedly neadulous abdomen In 18 patients another operation was performed at the same time in 10 cases through the same laparotomy opening 6 times there were subcutaneous hamatomata, but no subfascial ones. death resulted in z cases once from pentonitis and

once from thrombophlebitis in a pregnant woman The presence of a bernia i only a secondary and cation for Menge's operation if there is diastasis of the rectus muscle or pendulous abdomen for the symptoms of these abnormalities of the abdominal wall are often quite as important a those caused by the herms and Menge's operation is designed not only to remove the herms but to restore the normal anatomical condition of the abdominal wall If believes his operation is indicated even in very small herman. Of the first 48 cases operated on 14 were free of symptoms when examined later The chief advantages of Mence's operation are (a) The use of the transverse fascia incresion (a) Brond s crossed lines of suture and (3) the plastic operation on the abdominal wall to cover the hermal I say LOUB opening

#### GASTRO-INTESTINAL TRACT

Rodman W L Gastric Tetany J Am M A g24 lsu 500 By Surg Cymer & Obst

Rodman reports an interesting case of gastine telany which came on eleven days after a success ful drainage operation at which t me the stomach the drain died with the drain died of the plome went. This patient the drain died of the plome went of the plane and the drain died of the plome went. This patient is also the plane and the plan

beings or malignant obstruction of the polorus None of the theories as to the toology of this disease are entirely a usfactory but Robson bebeves that geaters tetany a due to an absorption of singnant contests of a dulated tomach which poisons the nerve centers and thereby necesses refer untitation. Medical treatment is practically a failure According to Brown and Engeloach at least 88 per cent of the cases die Surgical treatment is usually successful. It comests of a drainage operation to relieve the over distended and irritable stomach

Prequent and thorough lavage of the stomach does a great deal of good in lessening the number and severity of gastric spasms and general convulsions

but does not prevent them

Rodman is unable to explain the presence of pints and occasionally quarts of the greenish secretion which would usually be removed from the patient in whose stomach were two open ups a patent pylorus and a gastro-enterostomy more than two and one half inches in worlds, and in whom obstruc-

toon due to kink in the journam could be climinated. Buttermik, was the ideal mountainent in this case. Other foods apparently caused fermentation soon followed by nauses eractations and constant conjunted with depression and evidences of general torusmix.

Cole I., G The Positive and Negative Diagnosis of Gastric Cancer by Means of Setial Rönigen ography N Y ii J 19 4 xxx, set S By Surg Cyne. & Obst

The author c spares the method of diagnoss by serial motigrography of gastric carcinosa with exploratory liquinosom. His opiniosa are based on a study of 50 fc cases of of which understo operat on. He considers the diagnosis can be made with as great a degree of accuracy and the outgeon ological method has the advantage of being without risk to the patagent.

Ordi ary tontgenoscopy of rontgenography will not suffice for diagnosing sm it indurated ulcers or eating carcinoma. The author is not content with less than 40 rontgenogram and he frequently makes 20 or 80 These are made with the patient in the prope and erect postures and at various intervals after the ingestion of the barrum. The plates should be set up and studied individu lly and collectively and superimposed for comparison. The routgen ological diagnosis is based on permanent constant deformities in the gastric will which interfere with the progression of the peristaltic wave pylorusward. The appearance depends on the nature and form of the growth This method of diagnosis is of value also in ad anced cases for by it the location and extent of a tumor and the surgical procedure can be determined Exploratory operations in in operable cases can in most cases be rendered un THE A EVANA necessary.

Cole L. G. The Dangoness of Postpyloric or Dundenal Ulcer by Means of Serial Radios rapty M 4 Pre & Cu. 9 4 20ru 20 By Surg Gynec & Obst

The author bases his diagnosis of postpyloric uler 1 e an uler occurring in the first portion of the duodenum upon consta tly recurring deform ties of the cap or Phincter caused by the induration or recatrical contraction surrounding the crater of the ulter. There may be associated a pouching or dilutation of the num olded portion of the cap and this pouch may retain a portion of the bismuth meal for an extended period after the stomach has empired itself constituting an additional indication of the presence of an ulter.

Lattle rehance: to be placed on so-called flecks where basmuth is supposed to adhere to the ulcer Healed ulcers may cause definite irregularities which can be shown rontgenographically but which are with difficulty detected at operation or autorysy

Adhesions to the cap secondary to gall bladder divease may cause distortion which cannot be differentiated exclusively by the rontgen ray from those due to postpy lone ulcer ADDLER HARTLY G

Kolb, K. Wilms Nethod of Ligating the Polorus with Fascia. Ligamentum Teres and Omen rum as a Subst tut. for Undateral Exclusion of the Pylorus (Die die Frastmethode du ulateralen Pylorus sachaltung Pilorus ach rung mitcht Taxer Ligament mit res hepat d. V. to mach Wilm.) B. H. G. 9. Entmild I dies. Ch. Greungeb

By Zentralbi f d ges Ch Grenzgeb

The author discusses the steps which have led
from you Liselsberg's unlateral evelusion of the

p) forus to the much less harmful method of harting the p) forus and cites Bogoljuboff s experiments which in 908 howed the possibility of producing stenos s of the intestine by means of transplanted string of anoneuros s

Independently of Kolb Wilms began his e per ments in 197 to close the plyons in ulter of the duodenum with transplanted fasca and with his scholars developed the method experimentally described to the control of the

The secondary continuence of the facts—cica tricial contraction—which the author had demon strated in animal experiment made a firmer ligation unnecessary. The place where the strips of facts crossed was fixed with a siture and the ends were sutured to the rang of facts and the ments were sutured to the rang of facts and the new theorem has displaced by long fastenced with suture it the serious and numeritar coasts of the pyloru

Of is ser figat on of the pyloru which the author describe let I o were ulcer of the duode m or p I u rulcer of the t math and 5 d lat toon I the st math and st nous I the pyloru from dhessons The cases and modifications I the peration by other authors are also considered

He report a case f i gation of the pylorus with ligamentum teres a d three in which omentum was used the I gamentum teres wa u ed in the same w y the fascia o ly it was drawn t ghter. In using the much less elastic omentum the pylorist was crushed higated with a sill-suture and the orientum fastened in the same way as the strips of fasca. The postulate that the pyloris shall be impenentable to chyme and the duodenum shall not fill even after hours was completely fulfilled. The examinations extended to 148 days after the operation.

From his experiments Aolb thinks ligation with fascia is the safest method and that bad results can come only from errors in technique omentum is the next best material Judgment cannot be passed as to ligamentum teres as the author's case in which the result was satisfactory is the only one known. Worzy

Whopple G H Stone H B and Bernhem B M : Intestinal Obstruction III The Defense of Vechanism of the immunized Animal against Duodenal Loop Poison J Etp Med 014 U 144 By S T Gynec & Ob t

The authors found that an immunity was produced in dops against lethal does of duodenal loop por son by means of repeated small does of the loop fluid from dog cat or human The immunity dis appears in a few weeks. The seri of immune dogs were found to be inactive when incubated with duodenal loop fluid. The organ extracts and emisions from immune dogs rapidly destroy the loop posson during incubation in title.

JAMES F CHURCHILL

Whipple G II Stone II B and Bernhe m B
I Intestinal Obstruction IV The Mech
an sm of Absorption from the Mucosa of
Closed Duodenal Loops J Exp Hd 0 4

ct 60

the Sun Gyne & Obst.

The authors have shown in previous papers that a toric substance is formed in a closed duodeal loop. The experiments of the present paper show that the intorucation is identical whether the loop is left empty at operation or is filled with a lethal dose of loop flund. This emphasizes the fact that absorption of the poison is essentially from the mucous membrane rather than from the contents of the closed procession is not influenced by the presence of the procession is not influenced by the presence of the contents of the closed content of the contents of the closed which bathe the mucous membrane may be essentially response ble for the pervicted activity of the ru and secretian of a to c substance:

H usm nn T Different Forms of Caccum Mobile

(Du tschedenen i mendes Caccum nob i ) Ust

d Gre 1 b d Med s Cb 0 3 695

ByZe traibl f d ges Chi Greungeb

The author distinguishes the following various kinds of movable carcum (1) Carcum mobile due to a long common mesentery in which the carcum can easily be pulled far out of the abdomen on laparotomy (2) Carcum mobile due to flaccid

slack retrocacal tissue and short elastic mesentery (3) Cecum mobile with a short czecal mesentery but a long mesentery of the ascending colon and hepatic flexure The form permits a marked dis-placement of the ascending colon and hepatic flexure to the left and the cecum is twisted on its long axis so that its head is directed toward the right and its lo g axis runs from below on the right unward and to the left

Cecum mobile is frequently not recognized because of the short carcal mesentery but as it may cause serious symptoms the author recommends operative treatment. The surgeon mu t not be content on opening the abdomen to ascertain the length of the carcal mesentery but must examine the conditions of fixation of the hepatic flexure and ascending colon

Sonnenburg E.: Changes in Views Regarding Appendicitis (Di Appendicitis ensi und jetzt) Berl Kl II fans & 913 | 2213 By Zentralbi f d ges Chir , Grenageb

There have been great advances in the knowledge of appendicitis (1) in a correct understanding of acute appendicules, the operative treatment of its early stages and avoidance of complications (2) an increased understanding of the peritonitis that accompanies appendicitia (3) a clearing up of the differential diagnosi of chronic inflammatory processes in the ileocacal region

Sonnenburg does not entirely agree with Aschoff that every case of appendicati begins with a phileg monous inflammation of the walls he believes that the attack of appendicitis is often an extension front the colon or that a cumulation of toxic substances or bacteria in the lumen may lead to severe irrita tion of the walls without histological changes The quantitative leucocytosis shows us whether the body is in a position to overcome the infectio net a method with Kothe's modification is valuable in this particular

The theories of caccum mobile and hab tual tors on of the cocum found adherents but catarrhal symptoms typhlocolitis have been found to be the point of origin of the attacks and of the changes and adhesions in the ileocæcal region Collection of feces in the appendi which was formerly den ed is now recognized. It is now a recognized fact the the so-called chronic appendicates is often to be attributed to inflammat one of the crecum ascending colon with adhesions and kinks and swelling of the lymphatic glands and that me so er chronic appendictis may be cured by removing the sources of disturbance in the region of the hepatic ZUR VERTE flexure

Adami J G Chronic Intestinal Statis Auto-Intestication and Subinfection. Colo Med By Surg Gynec & Obst 10 4 TO 34

Adams discusses a detail and seeks for th etiological factors of the many symptoms which result directly from the so-called auto intoxica

tion of chr nic intestinal stasis. He states that Lane has recorded no less then seventeen outstand g symptoms as directly due to stasis together with eight mal dies indirectly due to the same cause These it is said are merely the most im portant results of stasss

Lane brought forward says Adams 17 patients and their case reports as evidence that these various conditions can be cured or definitely amel orated by short circuiting the large intestine by removal of the colon or by insertion of the lower end of the ileum into the pelvic colon by removal of obstructing bands or by p rformance of gastrojeninostomy to

overcome duodenal obstruction and Adams sava To day I want to consider not as a chinician but as a pathologist, how far we may reasonably accom-pany Sir Arbuthnot to what extent his doctrine is

to be accepted

The term auto intorication as applied first by Bouchard in 1887 is a misnomer and is not used to designate alone the poisonings due to excess or difect of the products of metabolism to the disordered working of the body-cells themselves or to disintegra tion of cells or the products of dissociation of dead tissue but it is rather employed to designate porsons produced by invading bacteria or toxing absorbed from the intestinal tract which later is in resulty extrassic to the body and Adams, in short calls it a means to cloak ou agnorance in a garment of pretended knowledge

Adams believes that Lane has not gone fa enough for he states that in a long survey of the a atomical relationships of the viscera. Geddes finds that constantly where he has encountered Lane's and other bands of like nat re he has fo nd a la abdominal wall with more or less atrophy of the recti and other muscles and that the cause of visceral displacement is lack of due support to remedy this should be the first object of prevents e medicine and surgery It is the author's belief that these bands are non inflammatory in origin and a e formed by what he call stress hypertrophy of the connect e tissues prod ced by the pull of the badly s pported bowel on its mesentene attachments

In removing the colon or putting t out of use by short circuiting as Lane suggests because he con siders it a cesspool of the body is a fallacy be cause the colon absorbs great q antities of fi ida which contain much foodstuff in a soluble state and this concentration arrests bacterial activity Putrefaction is also prevented and most of the batteria in the faces are de d without having u der gon lysis Adami suggests that abdominal massage may be a better way of restoring the natural tone to the walls and viscera
Intestinal toxication m y b att buted to any

of the three following causes (1) The products of disintegration of foodst ff by the digesti e juices (2) the products of disintegration of foodstuff by bacternal activity and (3) the ectotoxins discharged by the intestin 1 bacteria

For the first condit o Adams says that in the

light of our present knowledge it is not the digentive float that by their action on foodstaffs induce Lane a supploms. Concerning the products of daintegration by bacteria the indol group contain us existed phenol and creol are the only possonous substances to be considered and these are not taken up or absorbed by the colon for when indican occurs in the urine in any considerable quantity it mean that there is an intestinal obstruction high up above the alcocard valve. It is interesting that under the third co dition—namely bacterial ectologists we find that the bacteria unsuly found in the intestinal tract have no ectororius and as they do and collection are formed.

The main issue of Adamia spaper and the point that he lays most stress upon is that all the symptoms or nearly all circle by Lan may be explained by subinfection. He alls attention to the fact that where Lane made blood cultures on his cases of status he found them postive either backlus cosh or a streptococcub sing present 1. regards the status of the control of the property of the property of the control of the property of t

s) inploms

Thus Adam conclud s that it I more tational to regard the e i effects of intestinal states as a result of cond tions favoring ubinfection and low forms of conditions favoring ubinfection than a result of chronic nationation. The nature of the organism responsible for the disturbance and its probable sent of ent v. hould be discovered and other means of procedure tal. n be fore operation is advised.

#### Case J T The Rontgenologic Findings in Maig nant Obstruction of the Colon Lenci Ci 19 4 216 By S rg G ec & Obst

In a decus son of this r econdition (a e ad tast the bromath of the entire al men; the trained in the trained i

When the pain it is befor the critical floor scope is often possible to it the like local are and flund the two lumbs of the pleasure flowers and the the determinent they resence of integerstals be not gither he get the flundles! I case man tagin that the pre utual persait has a 1 th in the right that the pre utual persait has a 1 th in the right that the present it, which is normally, at continuous and the control persait it which is normally at creation which care the food from the right half of the bowel to the life that if we can the convarial of rection which care the food from the right half of the bowel to the life thalf where the per tail in fluence.

distalward In cases of scute or chronic colonic obstruction there is evaggerated antipensialis and Case believes this to be a sign of serious bowel obstruction

In suspected colonic obstruction he favors the study of the colon with the bismuth enems first upon a horizontal fluoroscope of the Haemsch type His opaque enema consists of barrum sulphate 3 oz alcohol 2 dr gum tragacanth 140 gr and water 2 pts at a temperature of 100 F The onward progress of the head of the entering enema should be carefully watched inch by inch Lyen in early carcinomats it will be found that the head of the column halts at the sight of the tumor and the distal colon balloons out under the pressure of the bismuth injection After a few moments a finger like bismuth shadow may be observed appearing a Ittle distance beyond the apparent head of the bismuth column afterwards the bismuth may pass on and completely fill the colon. The finger like process which one observes in these cases represents the bismuth in the narrowed lumen of the bowel corresponding to the site of the tumor Except in the very smallest lesions there will be most likely a filling defect in the shadow of the large bowel corresponding to the location of the growth

The ignificant \(\chi\) ray finding in these cases in connection with the bisnowith meal is stains above the sight of the tumor often accompanied by dilat too above the size of obstruction Frequently facal masses in the bowel proximal to the carcinoma itself often lead to erroneous conclusions as to the actual size and size of the neoplam and the inclusion is to estimate the size of the through the intensity of the size of the tumor to be higher than it re lly is \(\chi\) Mutting twenty four hours until the ireal tumor or mass in maded by in muth is advasable. Case summanies the \(\chi\) ray findings 1 carcinoms of the large bowel a follows:

Exaggerat on of the normal antiperistals s giving the appearance of pen taltic unrest to the bismuth content above the site of the obstruction 2 Arrest or hindrance in the onward progress of

the bismuth meal

3 Arrest or noticeable hindrance in the ascent of th bismuth stream when a bi muth enema is given 1 Coincidence of a pripable tumor with the point of hindrance in the progress of the bismuth

meal o th bismuth enema

5 1 filling defect in the shidow of the bi muth filled colon Frequently the filling lefect is digtated indicating a cauliflower growth at times it may be annula so that an annular carcinoma may be diagnosed 6 The amount of bismuth chema which may be

pected is often indicative of the site of the lesion
The colon is often markedly distended by ga

and gas collections are seen surging backward and f with due to the altern tions of pen talsis and tiperistal:

Narked ideal stays when the neoplasm in

les the cacum sleocreal valve or the first part of

lack retrocecal tresue and short elastic mesentery (3) Cocum mobile with a short execul mesentery but a long mes niery of the accuming colon and hepatic fevure Thi form permits a marked dis placement of the accuming colon and hepatic flexure to the left and the execum t the ted on its long axis so that its head is directed toward the right and it long are runs from below a the

right upward and to the left Cacum mobile is frequently not recognized be cause of the short creal mesentery but a it may cause or the short careat measurery just a transport cause eerious symptoms the author recommends content or treatment. The surg on mu t not be content on opening the abdomen to ascertain the length of the certal mesentery but mu t examine the conditions of fixation of the hepatic fi ru e and

ascending colon Sonnenburg, E. Changes in Views Regarding Appendicitis (De Appendicitis enst ad jetat) Bri Kl. lick std. 10,3 l. 113 Changes in Views Regarding H CR Sth 19 3 1 313 H) Zentralbi i d ges Chir i Grenzgeb

There have been great advances in the Lnowledge of appendicitis (1) in a correct understand, g of or appendiculas (i) in a correct understand, g of scute appendiculas the operative treatment of its early stages and a ordence of complications (2) an incressed understanding of the pentonitis that accompanies append citis (3) a cleaning up of th differential diagnosis of chronic nflammators pro

oves in the incorrect region.

Sonnenburg does not entirely agree with \schoff cesses in the ilcocacul region that et ry case of appendicits beg n with a phies monous inflammation of the walls he believes that the attack of append citis is often an extension from the attack of append this is often as execusion from the colon or that a cumulation of toxic substances or bacteria in the lumen may lead to severe iritia or pacteria in the support may keep to getter the quantitati e leucocytosi shows us whether the body is in a position to overcom the infection of net a method with kothe a mod fc tion is aluable

The theories of creum mobile and h bitual torsion in this particular of the excum found adherents but attarth 1 s) mptoms typhlocolitis have been found to be the point of origin of the attack and of the changes nd of bristons in the illectrical region Collection of feets in the append which was former lened is now recognized it now a recognized fact the the so called chronic appendic tis attributed to infl mmations of the greum and actronuced to the principles of the second ascending colon with adh sions and kinks ascending of the lymphati glands and that moreover swelling of the lymphati glands and that moreover chronic appendicts in the cur d by removing the chronic appendicts in the region of the hepst sources of disturbance; the region of the hepst Bexure

Adami J G Chronic Intestinal Stasis.
Intestication and Subinfection C: By Surg Gynec & Obst.

Adams discusses in detail and seeks for th duama custusees in actual and seems for the relological factors of the many symptoms which result directly from the so illed auto toxica

tion of chromic intestinal stars He states that Lane has recor led no less than seventeen outstanding symptoms as d rectly due to stast together with eight maladic in breetly due to the same cause. These it is said are merely the most im

, =

portant results of stay Lane brought forw rd says \dama 17 presents and their case it ports as evidence that there arious cond tions can be cured or definitely ameliorated by short-circuiting the large i testine by removal of the colon or by insertion of the lower end of the ilcum into the pelvic colon by removal of obstructing b nds or by Performance of gastrojejunostom to overcome duodenal obstruction and idami says

To day I want to con ider not as a cl meian but as a pathologist how far we may reasonably accompany Sir Arbuthnot to what extent h s doctrine is

The term auto intoxication as applied first by to be accepted Bouchard in 1897 1 a mi nomer and is not used to designate alone the poisonings due to excess or dilect of the products of metabol m to the d sordered working of the body cells themselves or to disintegra tion of cell r the products of dissociation of dead tis ue but it i r ther imployed to designate po sons produced by in ad ng bacteria or toxins absorbed from the I testinal tra I which later is in real ty extra it to the bods and Idam in hort call it a means to class our gnorance in a garment of

Adam belies es that Lane has not gone far enough preten led knowledge for he st tes that in a | g ures of the anatomical relationsh ps | ith | see a Cr ides had that constantly where h h s incount of Lane's and other bands | i ke nature he hi found a lay abdominal wall with reore or less strophy f the r. tt and other muscles and that the ause of succral displacement a lack of due support to remedy this should be the fir t object of present e medicine and surgifat is the author other that these band are nonc Il stress hypertrophy of the connective issues produced by the pull of the bully supported bonel

In removing the lon or putting t out of use by on its meent ric trachment iders it a cesspool of the body i a fallacy cause the colon absorbs great quantities of finds which co tar much food tuff in a soluble stat and this co centr tion arrests bacteri I acti Putrefaction is two prevent d and most of the

bacteria a the faces re dead without having under Adams suggests that abdominal massage may be better w of rest ring the t ral tone to gone lysi Intestin i t xic tion m ) be attributed to a ) the walls and viscera

I the three following causes () The products of distincting two of foodstuff by the digest e pures (a) the products of disintegration of foodstuffs by bacterial att 113 an 1 ( ) the ectotorius discharged

For the first condition Adams says that in the by th 1 test nal bacters

could be followed it would be found that at least 57 per cent died from the complication

The treatment was considered under two heads Purulent extravasations into the pleural cavity should always be drained and an attempt made to place a dramage tube into the abscess cavity in the

Abscesses opening directly into the lung should be treated conservatively for a time because some heal spontaneously If however they drain hadly and the patient is losing ground they should be attacked boldly by the transpleural operation and the cavities in both the lung and the liver dramed

Cole L. G The Röntgenographic Diagnosis of Gall St nes and Cholecystitis. S 1 Gy & & Obst 1914 zvin 8 By Surg Gynec & Obst

The rontgenographic indications for gall stones may be either direct or indirect. Direct evidence consists of a characteristic localized area of increased density corresponding in size and shape with a cal culus Indirect evidence is afforded by an altera tion in the lumen of the stomach cap r h patic flexure of the colon caused by adhesions from u accompanying cholecystatis In 30 per ce t of the cases varnined the lesion was d tect d sol ly by indirect evidence and in 60 per cent of the c ses the indirect evidence was a most important factor

Gall stones mu t be differe trated from renal calcult a d other cal areous bodies such a calcufied costal cartilages Biliary calculi show more dis tincily an lappear smaller when the plate i placed on the abdomen than when it is placed on the back

The opposite is true of renal calcula When there is a calcareous conting to a cholesterin nucleus biliary calculi cust a ringlike shadow while renal alculi seldom if ever have this appearan e When three or more bilitry calcult are present the re I kely to have faceted surfaces, which are readily recognized rontgenographically If more than one r al alcul s is present o e is usually larger than the thers Moving the tube from il t ide alters the relation of a bili ry il lus to the k dn s but it locs not alt the relaten of renal ale lus

to the Li ) Adhesions from holery titis so lovely revemble adhesions and circural c at it from prepalori or posts ylors ( lund I) ul r that it is sometimes diff cult t diff re tist between thm (all bladd if tio uall m re t nsi

vol es the g at r cur ature nd draw the stoms h to the ight a ng a angulatio of the cap like up me be in ol in the dia ion but not min that h pyl cend fth t mah. There is no il fix bed re fi dur ton of the ap and obstruction of a limen not a freq ent as in we f duoder l'ulcer

I breete inc igalit stolmre i sal lu tha the dt t n f the I ul themsel es becase the thei seprese t 4 infectio reg ing urm al ni ention while

gall stone without infection may remain in the gall bladder indefinitely without causing symptoms Gall stones may be detected often enough to

justify a rontgenographic search for them but the absence of any direct evidence does not justify a negative diagnosis and should not prevent surgical intervention provided it is clearly indicated by the hi tory

Eppinger II Pathology of the Function of the Spicers (Z P thologie d r M branking ) Real Il & & 1913 1 500

By Zentralbi f d ges Chir u Grenzech

beveral ca es in which splenectomy was per formed for hypertrophy of the spleen form the basi

of the following conclusions The acterus from which patients with hyper

trophied spleen often suffer generally disappears after splenectomy By measuring the todine in the I poid of the blood freed from cholesterin the author confrmed king and Medak a assertion that th re is a parallelism between harmolytic processes and a high todine content. The todine content inks after removal of the spleen and the fat con tent f the blood increases as experiments on does lo shown Blood examination showed very high jodine content in pernicious anæmia circhost of the liver hamolytic scterus and circline sta i

It is desirable in clinical blood examination to t ke account of the number of cry throcy tes formed and destroyed By demonstrating the problem n the stools by Charnass's spectrophotometric method the amount of destruction of erythrocytes ca be measured to a certain degree There is a high urobils content in primary anamia hamolytic icterus mal 171 lead poisoning and pnuemonia while it is low in an emia from carcinoma post p rtum anamia etc

3 The urobil a content after exturbation of the splean n hemolytic icterus and pernicious anemia 1 ry much lower and the patients recover well
4 plenectomy has been performed with good
results thus f r in 2 cases of hamolytic interus 2 f permenous anamia 3 of the so called Banti disease a of hypertrophic curb sis of the liver and s of grave catarrhal scterus There were no deaths but afte splenectomy there was often an idi nathic

The spleens in permicious anamia and ha moly tic icterus were very much slike they were crowd d with erythrocytes There seems to be a parallelism between the hamolysis of the pleen an I the amount f blood n t This is true also in conditions of rdisc tass to judge from the urobilin content of

the stools 6 In cases with marked hamolytic processes th h er also was f und to be functioning pathologi

cally It seems that conditions such as hypertro phic carrhous fith liver at die to primary disease f th pleen perhaps the seventy of many primary h patic diseases such a al hol circhos. I pend on the great r les hemolytic cti ity of the

spleen The cases which were improved by splenee tomy seem to have been characterized by an abnor mal increase in splenic function. As a means of defense against this, an increased activity of the bone marrow developed. In increased hamolysis therapeutic measures should not be directed toward the bone-marrow (tonics) but toward the spleen (splenectomy) G B Garage

#### MISCELLANEOUS

Kawasaye: Anatomical Changes in the Abdom nat and Thoracic Organs Especially the Peri toneum in Animals, after th Intraperitoneal Injection of Comphorated O1 (Uber die ans tomuschen Ve Anderungen a den Bauch und B u t organen insbesondere am Pentoneum von Thieren nach intraperatonealer Campherolinicktion) Ar h

By Zentralbl i d ges Gynāk u Geburteh s d Grenageb Intrapersiones injection of camphorated oil into rabbits almost always causes the reactive personness described by Hoehne. The experiments were performed on 43 rabbits The author agrees

with Hochne that the is to be regarded as a foreign body personnis. Three successive stages can be distinguished (1) The stage of endothelial pro-liferation and leucocyte infiltration (2) the stage of fibrin formation and (3) the stage of organization and slow absorption of the oil The injection of one half com of one per cent camphorated oil to 100 gms of body weight does not have a toxic effect on the rabbit Fat embolus of the lung cannot be ab solutely excluded with this amount of oil which would mean 300 ccm for a man weighing to kg

The author has never observed intestinal ad hesions though observations have been carried on for many weeks after injection of camphorated oil The sensitiveness of the peritoneum to the oil is very different in different species of animals and even in individuals of the same species. The re-action also varies in strength in different areas of the peritoneum. The rabbit a peritoneum reacts very strongly and uniformly while in guines pigs and white muce the reaction is slight and not un-form and appears to a very different degree in d fferent parts of the peritoneum

#### SURGERY OF THE EXTRENITIES

DISEASES OF THE BONES JOINTS, MUSCLES, TENDONS CONDITIONS COMMONLY FOUND IN THE EXTREMITIES

Wil neky A O Injuries of the P closteum with Dapacial Reference to Their Relations to the Pathology and Repair of Fractures of the Bones An J 5 15 9 4 xxviii 63
By Sury Gybec & Obst

Injunes of the periosteum are usually associated with injuries of the neighboring bones or soft parts After describing the hi tology of the penosteum Wilensky classifies injuries of the periosteum under the following heads (1) Hamat ma (2) laceration (3) injury associated with fracture and (4) injury

associated with dislocation The repair of fractures after proper alignment according to the author depends very largely on the condition of the periosteum. The form and location of the callus also is determined by the relation of the T I GAEVELE periosteum to the fragments

oré-Joseph G Rad ography of th Bones and Jo nes Its Value a O thoped c Surgery (L radiographie des o. et d articulations da sieur en charurgi orthopédique) i à d'él a med p clas 19 3 449 B Journal de Chirurgia clas 19 3 449

The splended advances made n orthopedic sur gery in the pa t o vears r due for the most part to radiology In his nork which a general review of the ubject presented to the International Congress of Medicine in London in August 19 3 the author considers all the diseases that an properly be called orthopedic n which def mt s the predominant lesion

He first discusses deformities of the thorax and spine which are so int mately connected with on another and gives the normal radiographical anatomy of the spice It is to be regretted that he does not moist on pictures taken in profile and that be tates liens tak n in an oblique position or in profile cannot be utilized except in the cervical region and in very young patients" for it is well region and in very young passers for it reasons to the known that in the great majority of cases any good radiologist with a powerful machine can take extremely useful profile pittles: He also passes over in silence two modern methods of radiodusprosis which are called into servic in orthopodece, first streegeopier radiography, which is of considerable importance in the tudy of malformations of bone in general and second teleradiography which will authout doubt b of increasi g usefulness in this

field hyphosis scoliosis a youth congental deforms ties of the spine deform tes of the thorax and ribs and symptomatic scoloses include the greater part of the diseases in which collaboration is necessary betwee the radiologist and orthopedist Deformities of the upper limb are less important and less frequent but they present some obscure points Dupuytren Vadeiung's deformits expecually re-quires further research to lear up t origin. The rontgen ray h perhaps their greatest field of usefulness in affections I th lower limb especially of the hip A k owl dge I the norm I radiological austomy of the h p indispensable for the study of congenital dislocation I the hip as well as for deviations of the neck f the femur. He touches lightly on radiology of the leg and the Luce the foot furns hing material for a discussion of the difficult subject of club foot

In extensive bil hography concludes this interest ing and useful work it is to be regretted that as is frequently the case the titles of the works are not given along with the authors and places of publication. This work gives physicians who are not special sta in orthopedics or radiology a good general review of the question

R I EDOU'S LEB ED

No ak J and Porges O The Acid ty of the Blood in Osteomalacia (Lber die \cid t t des Blutes be Osteomalacia) II kl II k hr 19 3 be Osteomulacie) Il B Zentralli f d ges Canal. Geburt h d Grenzgeb

In 11 cases of osteomylacia 1 during the puer perium 3 in advanced age 1 during pregnancy and t of ostitis deformans in a man the acidity of the blood was tested by new m thod for the sake of testing the acid theory The 130 examination showe I a lecreased carbonic acid content but even in normal pregnancy there is such a decrease. In osteomalicia as in pregnancy there must be an increased capacity of the blood for dissolving cal cium salts and an increase of the acidity in the sense that the fixed soid that dissolve culcium alts are reased and the carbonic acid which or pitates calcium; decreased so that the blood has a greater capacity for carrying calcium. The dmini tr tion of alkalı s di I not have any eff et on the o teoma lacir but in on case of osteomalacia at an a lvan ed age all gn ( tetany which the patient had had fra year and a half d sappeared which d mon strates the fact the t there is relation between tet any and acidosis These experiments further con firm the assumption that osteomalacia is dependent on a disturbance f the internal secret on of the overy in so far as they how that normal pregnancy an lostromal cia present similar acidosi would seem to indicate that an increase of the changes taking place in the overs in normal or gnancy the cause of ont omalacia FIR LAR

Azhausen Bon and Joint Syphili (Be knochen od Gle kyphlis) Berl kl li h k 9 4 [

jo li,∕entralblidg. Lh Grenzeeb

lahausin gi es a d'tail d'des ript n fa lat form of co red an I congenit I phih which h call diffuse bone syphilis and e perially of sub-situtes with the calls tumor forming bon syphilis Diffuse in with is manufer illy at a per pher I hages by th L g and by I got th bo I the t an formation f the mooth su face int a ough on with tal tite ! k pre esse There also fundame tall high the strand trutte. The omputions of toy t nd replify pogy boe uses with rrow me h s resemble g j mi t which also full th m row a t Thus fu lam mt l h nge in bon truct to without softe ing o pourat n is the

most characteristic sign of diffuse bone syphilis regardless of whether it affects one or many bones or only a part of a bone

Rontgen examination shows clearly a uniform diffuse spongs bone shadow sometimes there are contained within it remnants of the compact bone which are gradually destroyed and absorbed. He regard this transformation as a reaction of the ossifying bone tissue to the powerful stimulation of the aseptic syphilitic necrosis which necessarily lead to bone formation and substitution for the dead bone a process analagous to that observed in trans plantation of bone If with the characteristic internal changes there are no changes on the surface a rontgen picture appears that can hardly be distinguished from that of fibrous ostitis

The patient's attention is often called to the seat of the lesion by a thickening in the bone or a spontaneous fracture If the process a limited to a part of a long bone a hard spindle shaped thicken ing I developed which increases in size and justifies the suspicion of sarcoma. Even the surrounding muscle may be involved in the philitic process

The appearance of irregular fever and cachevia

makes the differential diagnosi still more difficult It can be made by means of the Wassermann re action the rontgen picture and the effect of suphi litic treatment The clinical picture of joint syphilis extremely varied in one case it resembles acute r chronic polyarthritis in another gonorrheral sount disease and not rarely it may be confused with joint tuberculosis. The assumption that syphilis of the joint is chron c and prinless mu t be given up The listinction of syphilis from tuberculos of

th joint especially in childhood is often very lift ult. The d cisive point is the Wassermann rection which in all of Ashausen's cases wa positive In syphilis as in tuberculous of the joint a yno al and an o-seous form are to be di tinguished It is impossible to make a certain clinical or contgenological differential diagnosis between the one sal forms of the two diseases as in both there

bronce effu ion and swelling of the cappule with i negative r negen picture distinction is ea ter however in the oseous form

The ro tgen picture shows an ill defined outline f th couply and sometimes the leposition of lavers of bone which grainally e croach upon the urrounding tissues The normal structure of the eniphysis i hid len by clouds flecks. When os seous yphili heal sometimes foci of thekening an he seen in the ep physeal end of the bones The author regard arthritis k formans as a frequent result of bone yph h and thinks bone syph h n important fact r especially in the production of ju emile arthritis feformans Antisyphilitic treat m at brought fax rull and in one case bal hant rught He used intramuscular injection of hi blonde of mercury in young children and in oller bliren ni a lults he ga e a comb ned sal y re and mercury treatment f llowed by pot um a li le in rapidly nere sing do-es

Glenn E B : Report of Case of Acut Epinhysitis of Fernur Treases.

Lancet Cl. n. 1914 est. 171

By Surg Cymer & Obst.

The author reports a case of acute traumatic couphysitis of the femur in a boy it years of age the fact of infection arising from a stone bruise of the foot. The pat ent had been treated by the family physician for six weeks for rheumatism after which he was sent to the hospital and a correct diagnosis made After conservative measures were instituted without uccess hip joint amoutation was successfully done ARTHUR I DAVIDSON

Tyler A F: Cysts of Bone If d Herald 914 By S rg Games & Obst. XXXIII ST

The author comments on the increasing frequency with which home cysts are detected since the use of the V ray and emphasizes that they represent a distinct chinical entity in contra t to the earlier belief according to which they wer held to represent degenerative processes of other bone lesions such as sarcomata chondromata etc

A perimen const ting of a portion of the femur resect of for path logical fra ture is levenhed. This show il exeral cysts untaining a uscid material and hard with a thin shining membrine The cortical portion of the bone seems to offer no more

resistance to the growing cyst than the pongy bone In the simple cyst main often intermittent and sometimes associated with impairment of function is present. Occasionally the first upp of the lesion

is enlargement of the bone or spontaneous fracture For the simple evers he ad yes a metting away the membrane swal bing with pure cytholic al cohol pa king with iod form gause for forty eight hours and filling with Mourhof s paste in th case of mult ple cysts it is claimed this to atment will not suffice a d resection and bont grafting is ad tised The author reports f e cases as follows

t Multiple cyal in olving the neck of the femur Resection and hon grafting from the til ia 2 Sumple 3 t f th los r nd f the tibia Treatment as advisud above

1 Ira ture of femus occ rring just abov the site of a cyst Union and good function without

operation. 4 Two other jats ier lopi g in Inceding case some time later on in the femu ju t below the first and the second in the fibula

5 Rupture of yet of t bis with mail round cell infiltration in the li ing membrane F ( ( AL 5/2

Perrin M: Multipl Onteogenic Enstases Accom-panied by Arrested Development and Deform-lates of the Skel ton (Exostoses estiogranges multiples accompagners d'arrêts d'développement et de déformation du squelett ) Res s'arthop 9 41

Perm memoir is based in thre sac n h r mis-on service to I a the members of the same family the father and two children all three had multiple exostoses and also a malforma tion of one forearm the right in the father and daughter the left in the son The malformatio consisted of shortening and incur ation with the concavity internally and with an ulnar club hand due to arrested development of the ulna and con sequent sucur ation of the radius in the mrl the inequality in growth of the two bones had brought about luxation of the head of the radius the most severe degree of the deformity

Since Bessel Hagen's important work on the dis turbances in growth which accompany multiple exostores Perrin has found besides the cases reported there and these three of Lumisson a re

similar cases

These di turbances of growth are more frequent than is generally believed in the course of development of multiple exostores they may a volve a number I bones or a single bone the ulna or I bula. Ther is a general shortening of stature the arrest fdex clopment may uncolve the two upper or the two lon limbs. The most interesting fact, to the ancousbty in the length of the two hones of the same limi the forearm arm or leg. The fibula may be too short with incurs stion of the tibia and talipes talgus. The most frequent and almost characteristic type is arrest of de clopment of the nin with norm I or almost normal growth of the This produces an incursation of the radius with the con exity external or an ulpar club hand the ulna not being involved because it is drawn up from the wrist joint or there may be a fuxation of the b ad of the radius that threatens to perforate the skin

Pernn believes like Lenormant that the disturbance in growth and the multiple tostoses are two different man festations that are generally asso effect Both come from defective osteogenesis especially of the articular rt l re which radi ography hows learly. There is a hereditary in fluence in these disturbances in the region of the disphasis and epiphysis perhaps t is due to a tors afection such as tube ulous or syphilis

ILE ET MOLCETT

Jones, D W. C. A Case of Chronic Joint Lesions in Ha mophilla Lauci Lond 9 4 chezzy 606. Bi Surg Gynec & Obst.

Painful swollen joints with flusion are important complications of hamophil a. The fluid is usually clear and may contain red corpuscies There are three stages (1) Hemarthrous flusion of blood anto th joint ( ) Inflammation simulating acute tubercube ( ) Contraction scar f reastion and an Lylosis

The author reports a case of a man of 32 a bleeder from a hemoph! family with mult ple joint lesso a neluding a lines which welled and discolored quick ly after sight my nes hi coagulation time was 14 to be minutes

Amunategu G Primary Sarcoma of Muscles
(S reomes prim tils des in scles) C g mel Am
d l g lat 9 3 By Journal de Ch rurgie

The author describes three cases of primary sarroms of the musclis with their principal char acter thes in children of 11.5 and 8 years of age. The first two seem to have been caused by trau matism no cause is given for the third. Eviensive resection of the surrounding muscle was performed. There was recurrence in the first two cases the third had only recruit been discharged from the hostistial.

The author concludes that sarcoma of the muscles is more frequent than has generally been believed especially in children. Diagnosis should be mide early so that exter he resection can be done and the limb preserved. It is difficult to get the patients to consent to amputation which should be per formed only in case the removal of all the lesions is immossible. Sawa Mixecult.

Weil, S Peritendinous Anglomata (Über penten dinose V giome) Beit ki Ck 0 3 kxxviii 56 Bj Zentralbl f d ges Ch 1 Grenzgeb

Ihe author reports two of his own cases of pentendanous angions to which he adds four from the literature. They des 'vp in the loose cellular itsues amount the superficia, and deep flevor tendons of the hand sometimes toward the ultar side sometimes toward the radial escinitially involving the tendons of the supunator longus abductor and extensor politics and extensor capit radials. Because of their extension distally to the mextical of the twist joint and provinally to the insertion of the muscles of the tendons the tumo which are congenital but grow only slow! have an oval form Like all angiomats they are generally soft and mi fluctuat ing and c in the compresse!

In the author's cases the angiomata were hard ened in places by thromboses and calcification which show ed in the ronteep necture as round shad one It i these formations that cause the pa and not pressure on nerves by the tumor increases i size there may be slight contractures.

The treatment consusts in removing the black shown masses—which as n tuberculous are located on the tendons—without injuring them as the tendon she this are not molved it is early to differentiate them from tubercular tumors. The author b leves that their unrestrained growth gives ruse to a number of the diffuse amgiomata of the extremute and the state of the state o

## FRACTURES AND DISLOCATIONS

Stoeckl n W Fractures of th Head and Neck f the Radiu (Du Frakt re des C pt 1 m nd C II m radu) B st h G q 3 kx 64 B Zt traibl f d ges Ch (reageb

Twenty si cases of these forms of fracture recited by the author who divides fractures of the upper end of the rad s into neomplete t ans ersefractures in child en ind incomplet lo gitedinal

or obloque fractures mostly in adults and complete infactures (1) Tran verse and obloque fractures of the neck of the radius (2) separation of the epiph, 30s (3) chasel fracture (4) sprain fracture (5) subpernosteal fracture and (6) communited fracture Bes dos other fractures in the region of the close your which frequently appear as complications there is quite often an injury to the deep radial

The etology is (1) Direct—fall on the elbow or other direct violence (2) indirect—it is questionable whether it can be caused by a fall on the pronted hand with the elbow fleved or extended or fixed by muscular action.

The chaical sign of fracture of the bone are mostly lacking only crepitation and limited motion of the head of the radius on turning it can often be demon strated therefore it is necessary to make the diag nost from the mechanism of the accident the localization of the effusion of blood and especially the functional examination Propation and cane cially unination a e-markedly limited and nainful flexion and extension less so there is not non direct pre-sure and on a blow in the direction of the long us of the forearm From an extension of the head of the radius forward and outward a mistaken diagnosis of subluxation is frequently made which rarely occurs in adults the extension is caused by a fracture The decision as to the form of fracture must be made by the rontgen ray which is espe body in the joint and to demonstrate complicated fractures

Th treatment shoul! be functional as far as p sable long axation should never be allowed Case in which pieces of bone are completely broken ff where there are free bodies in the joint or in which the head is dislocated or comminuted must be operated on The indications are hiefly deter m ed from the rontgen picture. Even in the perati cases mechanical after treatment must be begun early Of the 26 cases 12 were operated on In the cases treated conservatively the results were good with o e exception the cases were for th most part the milder ones. In those severe cases treated by operation the results were varied th results were ery bad a three cases Generally a limitation of rotat on especially in the direction of supination

Mencke J B The Frequency and Significance of Injuries to the Accomion Process A S g Phila 914 h 33 By Surg Gynec & Obst

The author discusses the frequency of acromal numes and the import nee of recognizing the exact ature of the injury. In eight jet is in the Cerman Hoopital there were 89 cases of acromal a facturers. These were there () Wed marked fractures (2) a separation at the epiphysis or (3) sorain fractures—the latter predominating.

Sp ain fractures are most often found (1) at or above the acromio cl vicular junction (2) at the

insertion of the coraco acromal I gament or (3) on the upper acromial surface. Some are early detected with the \(\frac{1}{2}\) early while numerou others are only found after the closest study of several plates

It has been noted that most of these sprain fracfor a fix ofte the acromion at its clavicular junction and are often accompanied by a luxation of this arriculation

The author expl ins that these acromal injuries are caused not by direct violence but by transmitted force through the grt ter tuberosity of the humerus a in falling on the extended arm or elbox.

The two predom nating symptoms of these in junes are (r) Localized tenderness over the acromon and (a) pain on abduction. The author further states that in stiff painful houlders he has never been able to make the d'agnosis of sub-acromal burstis a is so often done.

lie treats every case by three needs test with aris massage and if necessary later by vigorous active and reasons motion Principle M C is g.

Rehwarz E Fracture of the Week of the Fernue in Children (N a wed us det S h kelh bl aktur des kindes) Bette M a Ch to 3 lex vii 25 By Lentralbi i d ges Chir 4 Greageb

Fracture of the neck of the femur is rare in child hood as compared with separation of the epiphysi It requires a degree of violence almost as great as that required f r the same injury in the adult The vanptom are those of a fracture of the joint fracture is intertrochanteric with typical's improms It is a m lar to fractu c of the neck h later a prainte poor tendency to heaf but is distingui hed from it by an earlier r turn to function I capacity. There is a maked tendency to oxa vara most caseheaf in this position always with bony ankylosis as the anomals of position is hardly noticeable chinically the prognor is favorable but in many cases the seck of the f mut disappears or there y Tate

Skinner F H The Visthemstical Calculation of Prognosis in Fractures at the Ankle and Writ 5 g G U6 1 0 4 K 18 Ry Surg Class & Obst

To facilitat th estimation of progress from rotagenogram of it turns the author believes that less sit into a necressiry it the authorized reduct to no of fagment of the functional joint surfaces and lines of which be integrify at the joints be in proper position it duction

In this tracture, the functional result of the fracture I pends pon the prope reduction of the agrangalu so the table he of weight berinni for e which passes that gh the tent r of the table along passes that gh the astrag thus at the center. This interpolett dupen the anti-open traction respectively.

2 In wer the tur the entre tylot process of the low remit the ratus constants distalt a her which too bes he tip o the ulnar at low! which here is a right angle to the longitud nod as solve radius. The functional result of fractures of the lower and of the radius depends upon the reduction of the radial should to this position. There here are to be plotted upon the post co-antetur rintig no grams of the wist.

The author believes that nature is nonderfully tolerant of fragments if he can ma nlain her functional joint surfaces

We've: Treatment of Recurrent Dislocation of the Shoulder by the Friich-Calamone Wethod (Trastement de la 21 m resi notes de lépad par la méthode Claimone l'ich) Re m d d 1Fu eg 22 82 By By Journal de Chrung

Write reports a case which thus far a unique in France of the Claurmon I Tuch operation for recurrent infocation of the housider. This operation has only here performed a few times but it is not really all the one last less fulfill the indication as the contract of the

The steps of the operation are as follows:

I Incason on the anterior sortice of the sime beginning at the coracoal process and following the anterior border of the delinal section of the tendos of the pectoralismyor separation of the tendos of the becepts then section of the transpiration of the breath then section of the truthout of the latestimus forus and teres major near the bone. The finger can then be passed troub the need of the business carefully a ording the artery and circum flex nerve.

2. A second user son is made along the posterior border of the deftood from the spine of the scapita to the lower merction of this muscle. It is has ig detached the adjacent p ris a muscle flan s of g cm broad is made comprising the post now edge of the deltoid. The excels and nerves are parted.

The finger introduced not the ant row wound row comes out at the posterior one a pure of forceps a peaced through the opening thus created the lo er and of the muche flap is served and brought forward thus being brought around the ar. lo of the humeres and stre gibering the lower port of the joint cap will. This flap to fixed in this post tom with a few.

utures
Reco ery took pla e in spite of an intercurrent
reshi fewer which kept the pritient in the hospital
tor a month. He has anne had se er i ti ts of
epilepsy b t th re has been no resurrent of th
disloc tion.

The Fritch Claims (peration is the operation of home is entired it location of the houself in the weekest part of the articulation result (peration) in the sense of it (receptionel) them will find it (receptionel) them will find it in the part that it is not the first them will find it in the part that the part is the first the part of the first the first

SURGERY OF THE BONES JOINTS, ETC

Sheen W Some Observations on the Operati e
Treatment of Fracture by Metal Plates and
Screws. Br t U J 9 4 4 1

By S or Cynec & Obst

Sheen emphasizes the importance of non operative treatment of fructures. His observations are based upon as cases of operations on the long bones are based upon as cases of operations on the long bones. The late cases meaning more than two months after the injury are more difficult to do and more apt to show shock. He lost two cases from the own operates on femure cases under spinal anaesthema. He advises Lanes technique of sont allowing the hand to enter the sound. The periodicult there was excessive callous formation. Hereafter he thinks it would be better to warp a paece of faste lyta around the bone to prevent this excess exclusive states around the bone to prevent this excess exclusions formation. We stress the state of the contraction of

Phillips C E F ration of Fractures by Means of Autogenous Intrumedulary Bone-Splints S g G cc 5° 05 t 914 1 33
By Surg Gyne & Obst

Fixation of fractures by means of autogenous intramedullary bone plints is recommended as the operation of election for the following reasons

1. The use of non absorbable substances such as bone plates wory pegs et create in the tissues an area of lowered resist nee and too frequently result in untoward remote effects such as chronic osteti

etc unless remo cd by second peration

7 Th use of autogenous bone splints which
become hving integral parts of the bones in which
they are inserted; the ideal method of fixation

3 The only d sadvantage of the method has been the difficulty of techn que and this Philips implifies by the use of a carpenter's brace and drill be to prepare the meduli ry canal to the reception of the splint

The splint is removed from the creat of the this placed ins m Il ives and fashoned by me ns of a hollow a ger such a 1 used by carriage makers. This naturement 1 th hone in the form of a tenon of the taste to fit th holts bored in the med llary all 4 bone tenon on and on half or two inches long as sufficient to farmly f a fractured femure or humerus

The use f these instrument greatly s mphiles the tech iqu f hone ir plant tion d fix i n of fractures

Faveret P Hollowing Out th Tarnal Bones in th Treatment of Congenit 1 Tallpes I quinowand (1 & id ment sa pla dans t ut m i pr tiq d pict bot ru erus conge t l) 7 h d dert 1 0.4 B) J 1 de Ch rg

The uthor disc sees the treatm nt of gent i tai pes equ ovaru whi h; n lucibl ma ually by the use of an at m atus which hold the foot timely

in a position of varus and has naver produced any accidents due to compression. He believes with Julaguer and I voau that tenotomy should be done high to be sure of cunting the two end of the tendon of Achilles. Jaliguer's method of linear ostrotomy may be used or Lamy, a apparatus to

correct the spiral torsion of the tibia
Venicites methol of subucutaneous hollowing
out of the bones of the tarsus is an asalietic operation
which lace is no sear and does not deform the foot
It has all the advantages of the other operations on
bones and ligaments without their disadvantages.
It is very efficacious and may be performed up to
the seventh or eight year. The author claims
that the operation; is os simple that it can be per
ormed by any practitioner because of its simplicity
and the few instruments required—a Lucas Chiru
point fee is hard performing serves and curettes—
and because it does not risk the life of the pattern
and because it does not risk the life of the pattern
the fact that these patients were treated by a very
skilled surgeon and orthopedat should be taken
into consideration in valuation the method.

L CAPETTE

McWilliams C A The Function of the Periorteum in Bone Transplants Based on Four llum a Transplantations without Periosteum and Some Animal Experiments S 2 6) ac cr 0 bs 914 u y 8 By 8 x Gynec & Obst

The author s a m is to attempt to settle the func t on of the periosteum in transplanting bone by a number of animal experiments. He cites the views of thr le ding authorities on the subject Maceuen Murphy and Axhausen all differing He reports four human transplantations made without peri-osteum following Macewen in each of which bone tran plant became ultimately absorbed. One of the past in was regrafted (fibula into tibial defect) with periost um with perfect result. In the animal cupt me t in which bone was transplanted in various w as practically every graft with periosteum h e l and thri ed while but 48 per cent of grafts with ut periosteum were successful. This shows that th re another element to be considered bedes the mere covering with periosteum this lem at a sail r to be a sufficient blood upply to keep th grafts alive Had the periosteum been on ill the grafts all would had he lived the conclusion th refore must be that the persosteum either favors t good blood supply o tile supplies I ving cells to the g ft

That th persosteum a n t unconditionally near to the lif f cry gruft is shown by the fact that 43 per cent i grafts without persosteum I ed h i ce it c n n er be determ ned which grafts will e if they be without personst um the natural on i on a that every gr ft should be transplanted with a m the pression as the new than the personsteum on a that every gr ft should be transplanted with a m the pressulem.

From these experiment the uthor concludes that both Maceven and Murphy are mi taken in their onception of the lack of function of the per-

osteum in muntaining the life of gr its and that Mury hy was much when he tated that the graft is not obleogenetic but that it is simply obteocon ductive of cell anto the graft from the contracting extremities of the haing tumps—this fact is clearly seen in experiment 3 4 17 and 19 If the he a fact the author a k. Why should so many of the grafts without perfusieum in which contact w thoroughly carried out have died?

McWilliam conclu one with proof under e h te a follows

t If a ravity he made in the shaft of the bone the octiosteum endosteum and marros I ing thoroughly removed the a ty bills up with he c from the bottom which new bone mu t come from the old bone itself due to an intact nutrient arters

2 If a section of the whole larmeter of a hone be removed then the hone a li regenerate between the end of the fragments of the whole or part of the persosteum be preserved bridge g the lefert

3 Provided the graft be it ing and taken from the une patient it future fif I pends on a efficient blood supply arrespects e of the pena teum or whether t is in cant 1 with 1 mg bone r not

s I graft on a graft neither having a covering of periosteum will not he es a though one grift be in cont ct with a ing hone

6 Periosteum alone wh a tran plante I into the

soft parts may produce it mg hone

The pitting of the periost am if a graft e en though the tran plant is attr is surrounded on all sides is periorteum in to be unnecessary and accomplishes nothing

Utogether 16 tra plant tion with period teum were performed and I these all but one or

per cent -were ucces ful

o Moesth e te nesient to without person teum were perform I and I these ab per ent were successful while a per ent we un uccessful.

The influence of the blood ppl s lem natrated by the fact that a per natification. without periort in mule with m ut fr gment were were ful while fut 4 1 t ett fthere with out penosteum m d with linge ingl fragm ! were successful

n ir tu f ll the foregos g to I tom a facts the nel m seem in stalle th t bone gr ft of whate tre hould be tra spl ated a th m teering shum an nng th s urines as nos ible in unite the post ass tan ma be had

of the r sub-couent h g

Le Jemtel Intramedullary Graft for Facudar throofs of th Diaphysi of th Tibla (1 cell tra-med Bare per perud ribnes 1 phy art d taba) (th med k d lorm adu t 200 B Instruct | Chrum-

Le lemt l'operated n nom n of 64 who had a fracture of both bones of the leg that had show no t adency to unite after four month of treatment He freshened the fr gm ats t ittl peg from one of the fragments of bont he had re-erted and pushed it into the marrow of the upper fragment then by bringing the two fragments as near together as possible he succeeded in making it penetrate the marron of the lower part of the tibia also so that the tibis seemed to form one solid bone

The question armes as to whether this fragment

I bone from which the periosteum had been removed acted merely a a upport or whether it wa a real graft In either case union took place by first intention and the bone was tolerated in a ery satisfactory I shion Consolidation was hones r loner than in an ordinary fracture and required nearly three month It the end of that time the patient could wall, and later reports abowed that she was getting along well

This case is neculiar in that the gralt was taken from the fractured bone. The results been ed that is the perfect tolerance of the graft and the absence of any signs of infects in such as there would have been with a sequestruum leads to the suppos tion that the graft hid not act simply as an mert risod I Down

Il raburg, F Mobilization of the Shoulder and rbirg. F. Mobilization of the mounts and fillow Joint by th Transpi neation of Joint finds (Per is M b) sat in des Achiller und Lilboreng k kes d rik. Tra pla tation on Gelenke d. ) Dissertion Berl 9 3 B Jenizall i d ges Char (renzeb

The author 1 scusses the bt rature of the treat ment I ankylosis of the justs and describes a cases in which fractures I the closs from traums furnshed the adjustion for operation three of them were children and ne a 55 year-old nomin In the first are occurring in a o-year-old child

the so at was laid here by a Langenbeck's memor and the fr tur exposed the articular surface of the humerus wa freed from allus the humeru resected the allus somme the fractured end of the joint a d the humerus extirpated and the end of the for I transpl ted to the humeru I reation at right angle was I llowed by good results there was ti fati joint

The second see a sear-old child who had been run over b a wagon The joint and fracture nere laid bare by a Langenhe 1 1 isson the joint end was free from cally and cm of the humerts resected I llowed by tran plantation of a suitable part of the d of the joint. The result here too w much bett than ould ha e been spected of mu-cle at reposition. There was no find joint

The third case was mplete ankylosis in a 9se rold bid caused by a fall the elbow liter opens g the clook joint the frectured piece of the condyl was freed from calluna hole was made in harp currette so that it titted over the n nith post i of the humers then I had dri no er the the bone w ra bored through atgut satures passed through the holes and tred & fixation dressing w applied : the flexed position The result was good

The fourth case was also kylosis of the lbow

joint in a 55 year-old person The joint was resected by Langenbeck's method. In some places the ends of the joint hal lost their cartilages The articular surface of the humerus was reimplanted alter the head and the lateral epicondy le had been removed in order not to leave too great a piece of bone projecting and to make the wounded surfaces of as near the same size as possible. Two parallel canals were bored and by means of alk sutures the part of the joint was fixed to the shaft of the humer us the electanon was sawed obliquely from the ulna the fixation being at a right angle The result was Moderate lateral flail joint and functionally poor result on account of the atrophy

In conclusion three operation on the shoulder joint by Klapp's method are described klapp's operative mobilisation of the joint by the trans plantation of the end of joints may be reckoned as a partial resection thu widening the field of the latter FRITZ LOEB

Lewis D D and Davis C. B Repair of Tendons by Pascial Transplantation J Am W A By S ng Gyme, & Obet 19 4 km 60

The free tran plantat on of tendons to repair defects in other tendons resulting from traums or infection has become a well recognized surgical procedure

For the free transplentation the tendon of the nalments longue has been used in most c es be cause it can be t moved without interfering with the wrist function. If however this tendon doe not uppl enough m te ral amother source of supply mu t be looked for

Experimentall t has been demo strated that fascia beha much like tendon when tran planted and that long defect in tend as ma be bridged by tubes of fascia and that tend n which c anot be differe trated from the ten ion which has been de stroyed de clops to repair the defect

hornew believes that when a fescual tube s a scried between the cut ands f tendons the fasc prol ferges to form the tendon and very little of th new tendon is form d by p of fer tion from the and of the dided one. The authors of the artule bel e that the fascial tube pl pts e

The ush report a age in which a trap of fasc a three and ne half the log and on half ch wide w u ed t equit the flexor t adons of the right ring t oger Within t weeks a d fin t round ib ni which roll i under the skin oul! be f lt

I rosm t reason th higger as a moutat i d the the facility was the Th rou i i b n i that uld be i it was a well tormed tadon fiffer g f m n rm l tadon in lack f bust r le Wh the tindo was de aded tran

red th riginal fasc al tube ould be een. It cont ned t indinous t save and there was no hi to logic ferring that the tiesus developed from the fascial tran plant R O Rum

New Points in Tendon Transplantation Stoffel A (Neu G sicht pu Lte fdem feb ted r Sehne therpflanzung) I ha di d d tsch orth p Ge Esch 1913 250

By Zentralbi f d ges Chr u 1 Grenzgeb

Stoffel believes that tendon transplantation is performed many times in an unphysiological way because muscles are used whose anatomical struc ture is entirely different from that of the paralyzed muscle Only muscles should be used that have morphologically the same functions as the ones for which they are substituted The extensor halluces the extensor longue digitorum, and the peroneus longus are suitable as substitutes for the tibialis anticus

A muscle should not be carried through the interoseous space because in this way an extensor may be substituted for a flevor and tics perso either should a muscle of the flevor group be car ned around the tibia or the fibula anteriorally because it may be loosened too much from its origin He says that the transplanted muscle must not be put on tension but that its physiological length must be preserved. It must not be inserted far enough from its point of origin so that it is stretched

Transplantation in paralysis of the foot must consist of two steps (t) The right form of the foot must be obtained by a plastic operation-traps formation of the tendon of the paralyzed muscle into a I gament (2) the substitution of another muscle for the paralyzed one observing the prin

ciples given abo e

The treatment of an over stretched muscle hould not consist in shortening the tendon for this only stretches the belly of the muscle that much more Stollel procures contraction of the muscle by trong electric stimulation through the wound supplemented by continued electric treatment after the operation

In conclusion Stoffel recommends electrical examination of the muscle during the operation to determine whether it is adapted for transplantation The color I the muscle is not always an index of ts strength PELTESONS.

#### ORTHOPEDICS IN GENERAL

Meisenbach R O: Some Orthopedic Conditions in the Neighborhood of the Shoulder-Joint B ffel W J 914 lxix, 410

By Surg Cynec & Obst

Meisenbach's article deals with the foll wing listurb nces of the shoulder joint ( ) Injury to the subdeltoid bures (2) rupture of the supraspins tus muscle (3) brachial pressure with neutritis as a mptom (4) referred pain to the neighborhood of the shoulder due to slightly deformed scapula

He points out that the subdeltoid burs's is often s jured when there is fracture or dislocation at the shoulder joint and frequently gaves pin long after the major 1 jury has been adjusted especially in those with a predispoing dathesis. The arm

usually can be taked but the movement a p inful I resoure over the burks when the arm is hanging is painful but this tendenced dispects with pressure at the same point when the arm is raise is of the burks is notected by the arroman vacces.

A 40 sear-old patient when seen several month after an injury to the shoulder had a swell ng of the left arm suggesting fluctuation in the region of the deltoid bursa. I be months after manupulation

the patient return d to work

Reputive of the super paraties muscle usually follows andrere muscular action - siten a control follows andrere muscular action - siten a control with a furnities and prevent the arm bungt as set above the level of the hould red in a car of injury with Dawborn a gn the prisent was unable to ruse the arm above the 1 of the boulder the right should redrooped forward and downward and there was stropply about the right in the latter than the redrooped forward and there was stropply about the right in the latter than the redrooped forward and there was stropply about the right in the latter than the redrooped forward and there was stropply about the right in the latter than the redrooped forward and the redrooped forward that the right is the redrooped forward that the right is the redrooped forward that the redrooped forward that the right is the redrooped forward that the redrooped forward that the right is the right in the right

Brach il pressure with neuritis as a symptom occurs in some indivaluals usually with a ten lency toward forward stooping shoulders and pres un-

unon the brichial olem

scapula was rmov. I

The author report a case with pain rs lating from the arm of refly in the hand contour of shoul derive equal to special tenderness over the burea active motions somewhat pinful in extain directions slightly tooped hould? rm forwar! When the stoop I shoulders were currected and the relative from the barea of the branch as pleass the largnoss

we confirmed by the patient impute of condition. The author belt es that a hurp posted evental which will not glude a dy man he assed by stoop shoulder astitude in a hidre and it is in secupation, there may be no rimation referred to the action of the condition of the condition

In the left cent at I gnose it too like to Drivborn gen posself duce two bility of the patient with 1 n 1 lightly me the arm in all brection whn there is believed between left reputere of the up a 1 n to the n 1 to ull fix atrophy (the dist 1 n note gnose under between lipsuched arm not lout rive be reveal above the bestelf it should till 18 we from

Marqui littl a Discree Treated by San C hucten a Operation (M ladee de little traté pa lopératio de l' Lichart | Ball | 1 m m Sec d Ch d P u 1 40

B Jou nai de Chiru pe t hoy of 7 with lattle s lee we hid never been able t walk, stand upright or se t himself litter of section of the tendon of Achilles and the content innova to both as les and fination in a price cut with the highs abducted the lept, extended and the first fleet Mar pa s decided 1 persons of the concept with the highs abducted the lept, extended and the first fleet Mar pa s decided 1 persons on the day to the he reverted in the terminal content of the less than the second of the same part in the posterior root fleet seek including three of our bars intart lattween e ch two bundles. The same part on was performed on the right except that fewer flars were rejected and the the bundle is to intartables were rejected and the the bundle is the intarture larger thrus those reserved. There were larger than those reserved.

complete fa lure of orthope he treatment con 1 tine

posterior root foers leaving three or four biarintale latiners of two bundles. The sam operation was performed on the right except that feerflaw were rescreted and it to the bundles left insich were larger than those rescreted. The rec. ys, was unevanted and eight drys for the operation massign, a dimobilist incomman meet. I may monthis sift or the operation the furctional result though histories on the time sid. is con levelable. The child earn with under the thing the properties be can extant uponght is those he had resulting a support and the can walk with be and of a can.

It do sake report it as think the Marqui resorted to root vertical to so soon before having at en orthops, It treatment a thorough first This case the rifors cannot sere a a basis for a discussion I the indications for othopsels treatment as I the more root is ton operations—termine as I the more root is ton operations—termine as I the second to be the second of t

not been publis d The print plat to a Cehucten operation in contra 1 with Forster's to 1 resect not the great nerse tru & I the post mor rout b t only a fe posterior mot obers. Cunto ands th 1 th m thod h a two ad ant ges first that the decrease a the ners tonus more uniform! I tr but d os r all the motor ils of the ant nor horn nd conce quently is reases the tone I all the muscles the second that the technique to mpler because of th con atr tion I all the root tiber. I mated the ia immoin essant kno bel it section g them to wh t rout they belong section of the 1 m a of the ri bra an be mu h fees at at a h ght as well bre did so that the t less langer i hord if espe talls of h morth ge n fa t thus f there ha been no Lehuct operatio Ithough mort It from \ it is true th t t ha onl been perform d abo t ten t th result bts ed e-percall in SINCS I tile livease they compute I vorable with those from I rst operation

Aurust and Barks gree with Cun clothing the 1 tiff in hor root serve a Ma que case and this hal that rihoped treatment—t notomy extending and most ed attornized course pil in the lept up perse rings will ge easiest factors ris it a operation the pun I root.

DELBET also agrees in this belief but call atten tion to another advantage of Van Cehucten's operation over Forster 112 that as the lami nectomy is further up the wound does not run the same risk of become g infected

MALCLAIRE call attention to the operation recently recommended by Stoffel for Littl s disease which consists in ecctioning parts of the nerves upplying the muscles that are the most contracted In one case he successfully sectioned half of the internal pophteal nerve but the operation i too

recent to have judgment pa sed on it In several cases of Stoffel's operation the results have been encouraging Putti 4 er is Anzilotti
i case Hoffmann 8 cases To avoid total parally is care mu t be taken not to cut more than half way through the nerve and to sparate the two end of the nerves to prevent regeneration

The author reports a case of this i sease the nature of which is still undetermine ! It is localized at the anterior tuberos ty of the tibin and was described in 1903 by Osgood of Boston an 15 bl 1t r

The author s patient was 3 years old an I fell while k clagg a football after a few moments of friction he was able to ren w the game and d In 1 come to the clinic until a month and half after the accident. The left leg did not show a vicious post n there was simply muscular atrophy of the thigh the femoral part of the knee was normal but the e was thickening of the patellar ligament and the anterior tuberosity of the tba ws prominent especially the external part of it Palpation showed a little if id i the joint and there w Leen pa on p essure at the tuberosity no abnormal mobil ty The mov ment of the kne were rmal except extensio which was incomplete

The prisent was placed a rest and treated by massage nd 3c later was completely well in on he complained of similar p us n th tuberouty of the right tibi which hid increased to twice the size of the left me which had bee attacked first The sign were the sam observed before n the left and h was used by

t d massage The case a followed by complet he try Schlattrs dase d the author go the f l lowing co lusio In idition to fri t re of the tuberos ty of the t b there i n ffection called Schlatte disease Clinic l'examination dos n t show t to be either t aumat co flamm tors natu e a tudy f the tiology gives no as me a f a ture and r d ogr ph cal xam nat on is not conclusive Local xam nation the course of th malady open operation a d radiog phy lead to the conclusion that the epeated lo limita tion caused by tract on f the patellar tendon fol lowed by exaggerated oss fi at on

W Heine-Medin a Disease and Its Relation to Surgery (Die Heine-Medinsche kankheit in thre B tehu g ut Ch rurgee) Al a f p 3ch
u re Arankh 9 3 11 29
By Lentralbl f d ges Chi Crenzgeb

Heine recognized the great importance of surgical treatment in infantile paralysi Its of act i to overcome leformity and restore function placement tenotomy an I plastic lengthening of the ten lons are mad use of to overcome contracture The operations made use of f r the restoration of function are arthrodesis transplantation of tendons and muscles and splicing of nerves

Arthrodesis is indicated in exten ive an I definite condition of piralysi Tendon transplantation hould be performed not less than a year after the acute stage. The social condition of the nationt must be taken into consid ration because of the

long after treatment necessary

If these two methols cannot be use I mu cles may be transplanted but this is a rare operation Ner e splicing has thus far not yielded very positive results

The author describes konig and Hildebrandt s m thod in paralytic club foot and paralysis of the quidricens an i deltoid Severe talipes equinus is corr cted by arthrodest Wild cases of club foot are treate i by tenotomy of the tendon of Achilles co rection of the position and a plaster cast. If both groups of muscles are paralyzed a throdesis is performe i if only one the plantar or dorsal flexors the tendon are transplanted

In partly six of the quadriceps if the flexors are paralyzed arthrodesis is indicated if they are normal te don transplantation. In paralysis of th d little Hildebrandt a transplantation of the pectorals major and traperius muscles is used or Vulnius rebro lesis

Lowman C L: Relation of Foot and Leg Muscles to the Statics of the Body B ! If & S J

The uth r briefly and concisely presents the relation of foot and leg muscles to the statics of m ddle segment the pelvis and lower back remons He describes various pathological changes and

ggests u tabl treatment It has frequently come to his notice that with malposture of feet limbs and back tenderness and pain was noted in the region of the hip joint near the trochanter major posteriorly and at the insertion of the I ligament anteriorly and the radiograph often sh ws a l pm g or e en spur formation due to irritation crused by increased tension of the muscle and ligaments attached He also noted in back strain w th tension upon the sholumbar I gament that th c est of the dium was thickened with a I pping of the ertebra and sometimes cale fication of the liga ment Also in weak round or flat back with in creased t asson on the psoas and pyriformis muscles irrit tion was fou d'at their origin and insertions

Weak's cro il ac joints tilt d'pelvis due to short

kg or unilateral flat foot may save much the same process by over strain upon the muscles

Relief may be of trunked by the adjusting of apparatus as plates shors etc to force the ox calcus outward and place we ght on the outer border of th foot so as to rotate the thigh and rest the irritated muscles

Rest and corrective xercuses should be used also in connection with corrective apparatus, aspectation in young adults and children C C Cutyre 100

## SURGERY OF THE SPINAL COLUMN AND CORD

Melsenbach R O The Correction of it e Fixed Structural Type of the Spinal Lateral Curva ture J Am M Am 19 4 lin, 517 lb, rg C nec & Obst

The author ad ocates the Abbott method of treatment for spin of lateral curvature fie behaves that

1 The chef causatire factors of se flow are muculity weakening together with the sinstomical construction of the error lateral curve may be considered as a sequence rather than as a primiting unity. It may be in the 10m many new through heave posture ongustrid diet or arration of the bin yakiki in

2 There is pr thall to types I but the flit and the lor lotte. I che of these occurring in children must according to Wolff's law affect the anatomy of the torse.

3 The spiral action is closely albed to the antiomical construction a is shown by the articular processes of the twelfth for if the dors I and the lumbar settlebers.

a 1 sperament on the late both with and without the rontge n r has that hyperett mean locks and if you unlocks the pun that in hyperettess in the lumbar put is roung it lock I and adherer the lorsal in his partially locked and ad

where the lorsal of partially locked and ad mits some rotation. In to ward flex in and adben long the pine is in the best position for correction and for the rotating of a later I wave

5 There are the types of sechlosis the onge tail postural and tru tural like tructural a the most difficult t treat as it in oh a the ras i'r ton not unly i'th pu e but also of the users of the torsio and the gene. I condution of the puts in the fixed tru tural type it miss and vertife have become defermed the legiment h to attract of and the most of the one puts it is if left alone will cause boan changes and therefore should need a catteriton et al.

As a consider g my cive for tre tim to one plect records of the vs. bould be made by means of special apparatus. the vs. limit r like animal properties of the pain in bould be tunked by me of rious genogram and h risk the capit and rich be not me to the tim fight of the same and by the nation to the tim fight of the same and become the rich to the rich the same and t

pens that these conditions and a pingtons improafter the pind correction has been understanlar some cases the percursage of hemoplotic iner used after our ruton. It is common to find suboxygenation resulting from deformity in private sufficied with sections and tick of excursion of the ribs. The excursion of the ribs can best be in proved by the correction of the spinal deformity

Since it has be a proved that the spine can actually be rerotated and the deformed ribs re moduled as it were many of the cases which were

formerly con idered hopeles may now be much

impro of and strughtened. I seem solious may be very much improve it in reg. rd both to the general beath and to the leforms all threshold receive artial co servation. The militypes and even those which formerly wer on idered beyond hith may n w be an t mic lly corrected when skill fully trained.

of the new method of treatment is comparatively rapid and in some instant is surpratingly so when compared to the old institutions the pain not necessarily being in proportion to the deformity. The about to pain between in the process of correction deemed much on the technique.

to lot is the dut of very practicing phi ician to look refully one and doubtful acre which may ungreat flat foot or any irregularity in podure be au these less tion from the normal may be forerand may of i trail curvature and later on sever definitive of the pine. (usuas M 1600s.

James W Physiological Scotlouis and it Ca ses (Die ph oly h Sho) w d bre trante) It is the Ch o It is the Ch o It is the Ch o

I the important work I need re a en the classeal pacture of physiological scotions which he been disputed for a quarter of a e turn a lighter anatom tal and de elopmental facts to show its

origin.

The spinal c lumin of tormal men frequently hows meted lateral dec tuons at three places at the ta fith secenth and second doesal relations. They are 1 is lumbouleval con original relationship to the second doesal one at the second to the second doesal one at the second doesal one at the second doesal relationship to the second doesal

forces. The author gues a detailed hi torneal presentation of the homeledge of physiological scoilous actions are the homeledge of physiological scoilous that some theory the theory of right bandedness that of unequal growth of the ribs etc. Clinically there are four different forms of physiological socilous represented by different combinations of the three deviations viz a +b +b+b + a+c +e Besides the constant logalization of these deviations physiological scoilous is represented by a number

of accessory deviations 2 Heretofore there has been no exact knowledge of the course of the internal pillar of the diaphragm Jansen demonstrates the surprising fact that contrary to all other muscles at as attached asymmetrically to the spanil column and hows a more or less decided tendency to run to the left upward and forward to be inserted into the central tendon This explains the tendency of the lumbodorsal junction to be drawn toward the left and the more pronounced drawing in of the left inframammillary region. The asymmetrical course of the internal pillar of the diaphragm is a compensation for the greater longitudinal ten ion prevailing in the left lung which was demonstrated by the author's earlier research Like a two headed muscle the left lung tends to pull the middle dorsal segment out more than the right and it also affects the cer vical segment The two upper cu ves b and c are thus the result of different lung tension and so likewise to be attributed to the greater strength of the left half of the d aphragm lie gives a free dis cussion of the four clinical forms of physiological scoliosis for which he proposes the names simple for double for a+b and triple or respiration scoliosis for +b+c The fourth form +c is a left con ex total scoliosis Jansen corroborates the three cardinal symptoms The ultimate cause of asymmetry of the diaphragm and physiological scoliosis is the upright position of man which points the way to prophylactic treatment.

Calot Treatm nt of Scol osis by Abbott Method
(I tr I me t d la se lave p l method
d Abbott) C g d i I f d Ch y 3
By J nald Ch rurge

C lot 3) that thanks i bbbotts method tools or no 1 ger neur ble all case every those of the four th degree can be ured The kind of sc loss is no sits due to more ige f patient; 49 'y to die ge hvv been ured and en the control of t

Mexcière described his technique. He believes in Abbott's principle of Leeping the spine in flexion to correct the position of the vertebræ but he believes the patient's respirations should be made use of for correcting the thorax He therefore presented his apparatus for pneumatic pressure for applying respiratory gymnastics. In tead of having the patient as Abbott does in the dorsal position in a hammock he has him seated with the trunk bent forward the abdomen resting on a strap and the forearms on a desk reversing the vicious attitude of the scholar seated with his elbows on a desk which tends to produce scohosis. He ent icised the method of studying scol ous by means of radiographs and photographs, which often give decepts e results and showed a series of casts of more than 30 patients the casts being cut to show the different stages in treatment. The method i active for it forces the atrophied parts to dilate and estores the thoracic segments t a normal position t benefits the respiratory system considerably as

shown by the spirometric observations made on il the patients and their ge erally improved condition. Although the method cannot be applied andiscriminately to all cases it seems to answer almost all requirements.

LANCE has been using Abbott a method for 11 months and thinks that with a few exceptions due to economic conditions or painful scolosis at should be reserved f r fixed scohoses. He has found it most successful between the ages of 14 and 18 but less uccessful in adults and impossible in the small child There are some contra indications due to local conditions rickets other deviations extreme grade of the scoliosis and some due to a general condition such as pulmonary tub reulosis Cases of recent cardiac usufficiency in connection with scoliosi in be cheved Results can be shown by a series of a to and radiographs but photographs are of no alue Abbott method has a definite effect n the rotation of the ribs and vertebra, it brings about improvement and often complete cure of the gibbosity the lateral deviat on is completely corrected ly n cases wh re there i little or no b ny deformity. When the vertebræ are very much del med he has obtained only partial cor rection but this correction could be maintained by wear ga cellulor I corset for a long time

On the whole the esults of the method are excllent and by t e the correction f the majority of severe scol oses is assured I D no r

Oppenheim H Diagnos and Diff rential D ag nos s of Tumors of the Spine (W tere Bett g Diagnose d D fir et l diag ose d T mo mid like pin l ) W t k f l ) k d V

ii) & traible f d ges Chur : Grenzich
The uth roon d rs in d tail in the fret chapter
the vmpt m tol gy of an inflammat rv process
of the lower segment of the spiral cord mulating
tum r The patient wis a st ear-oll m n who

for several months hall hall symptoms of a progress sive tumor of the conus of the cord As all therapeu tic measure were una viling operation was fin fly un I rtaken but the prtient hed of exhau tion Histological examination showed an inflummators process a meningomy elitis in the region of the

conus epic nu and lower luml ir cord

I case of successful operation for a tumor of the middle and upper p rt of the certical cord was d scribe | 1 raye ir a 12 year old boy ha I shown a gradually increasing pares beginning in the right arm accompanied by Brown Sequent's syndrome an involvement of the right facial also being noted Operation sh wed a fbrusarcoms at the level if the third fourth and fifth cervical vertebra. Re-

covery was compl to after removal I the tunior Data 1 et en hase I on a great number of the author cars for the dagnous and bill rential hagnosis I mail humiplems of which an inferior

a median and a upenut type is di tingui hed according to the hight of the les a

In the inferior type there is at jobic mitaliya I the small nu les of the hand a I generally also of the treeps the tracep of the being absent while the supurate reflex and that of the flexors of the forearm and the prenators a generally preser ed and my y nike a gg sted. There are pupull ry I p to puraly is of the leg on th same the there i are the a on the opposit the in the lg nil sis and in the same sid in the lower part fith arm upplied by the spinal roots.
In the upers type the atrophic parals i. if t the Frb a muscles but the fl por r flex f the for arm; licking; to d fit n trik ng the stylot process t the rate the ten I the fingers takes g netally auggerated place the true ps reth the p reus of the m wil upplied by the low r The media tipe hidly ve beered i a

pure form but me ed se ar not unusual Spanal hemiplegia use I he discussed for abu e the cervical enlargem at h a pe har harrecter The most important point the most rurntation est of all tendon refes Hypertonicity n 1 reflex s in the arm some im the rion orla ton and hard closus in w ase there has been a smultaneous par har fath haphragen to the reason upplied by the rate a using above the conservations here may be a rate 1 he omena a the from of hyperasthesia and ontra tures I to at at we cales. The probable has uses the The state of the second I brough of the spinal mote of the trifarial

the im stire s mptoms in the region of I here such as hyperasthesia and di There is regard to the appearance of

is oriention and d school wer to descripe the tree n america TOOK Y

Mayer L Fachondroma of the First Certical Vertebras Compression of the Gord Laminer tomy; Recovery (I achendrome des premiers cal in de empressa guerron I d'Aid d' Br de a la la la lourest d'Channe By Journal of Chicum

I young man of o had had an anthracoid furench of the n pe of the nick wa years before and a bard sucling of the region persited after it. It was painle s but ontinued to necesse in size slowly and in 1912 it was intered by physici no who be it ed it to be a lipoma or an abecess when it was found to be a bony tumor the wound was closed

bout a year later the patient was examined by Mayer who found a hard tumor in the occupital region al ghtly painf il on pressure not adherent to the skin ammo at ic on the cerel ral column Ra hography haved a bony tumor with a broad base umplinted on the spinous processes of the axis and the third cersical creeks there wa burth any pont neous pain except a sharp prin occasion all, in the neck and some tinging in the right arm movements of the head were possible but were a hitle d stu bed by the size of the tumor The tumor was r mus I quite es ils with the gouge and saw passing along the lamine of the second and third erricals in his Histological examin tion howed

t t be a ben gn osteochondroffb oma The patie 1 recover 1 juickly and remained q ite w li for four month then h began to feel fatigued h had wm. I facults us deal a con and a progres or perals is with amountophy beginning in the f ur fimbs and to the muscles of the trunk found at the n pe of the g with n \tumor ot an egg not ry hard paraless esk the adherent t the k p t source trusted t the right mer at I heat the lower limb the tendon re fless vers til i nami i mpurature sensa tion wit imost holishe i Thire was no ankie I nu no Bul nok no R mberg net no disturb nce of the phanet re I mbar pun t re sho ed a normal rathern ti fl tel W sermann reaction mg t 1 the lived and erebrosponal fluid Visy r m ! long 1 coston from the occ pit ! prot begans t the penous proc so of the with ers I it be th recurrent c it I genous portion of th tumor wil I to hed from the muscles of the or in tumor will take trom the muscles of the pe of the nick and rea ted then the vertebral column was puned it rection of the spinous process of the third risk it receive. The troop had predict it the memor of the retoral canal and had use I an accomplet in also of the axis on the third r I verteb a the esection w aris on the third r twerter a the esection we canly extinded the spinous process. In digital in mosel, the arise and attacks to a t k such the control to the strength of 6 cm without n ohing the tending only to the certification.

81 COI , apparatus The day after the operation the left hand could be moved somewhat two weeks later walking was almost normal and the disturt inces of deglutation sensation and the reflexes had disspongered in the control of the control of the control of the table of the control of

Leavinsky W. M. Ghorns of the Cauda Fquina
11 Jf J 1914 2012 360
By Surg Cyn & Ob t

The author reports the case of a woman aged forty nine years who twel e years ago slipped and fell striking herself violently on the buttocks but was apparently uninjured. She remained well until three years later when she began to have pun in the left lumbar region r disting in the course of the left sciatic nerve an I extending to the knee At times the pain also occurred either in the an terior portion of the left thigh o in the left calf The pain was paroxy mal and usually of a harp or darting character lasting for se cral hours were periods of several month which he wa entirely free from pain \t times the par was so severe that she was unable to he abe! About four years after the left lower extremity was attacked the right si le became similarly affect d. Duri g the last three years there bad be n numbn ss both feet a d toes and th | gs woul i often gs wa in walking At this time the knie perks wer all sent and there was loss of sensibil t extending from the toes to th knees 'tt the tim of am na tion the patient was unabl to walk or stan i Thre weeks before he noticed out onal i continen of unne and frequent tracks of involunt ry flexion of the left lower extremuts at the knee and h p joints the had cently had a ver lattacks of occipital headache no t n tu ertigo no omit ing. The menopause had occurred the pre-ious F 1 ruars She was alway of a n reous tempe ament

While mr c mbency sh was unable to lex tetether leg or mose the feet and toes. The crural group and th thopsons w r paretic on both and s when either they we pass ley le ated and supported she was abil settend the legs e cral tumes was then un ble to accomplib h 1 lightest moment. There was bilateral foot-drop with contracted ted achillis on the right side a d a trophu ulcer was forming o er the heel. The lance perks \ \text{N lies m of plate are fee s wer aboe t There was an old scolous with the conventy in the lower thorace region tenderness on pressure over the right side of the first lumbar vertebra. The was complete analgesis and thermo-anesthesis and loss of the sense of position on both sides extitude upward to one inch above the method to one inch above the sense of position on both sides extitude to the sense of position on both sides extitude to one inch above the level of the umbilicious while on the level of the tended to the mipple Posterio by it extended to the level of the eleventh thoracts appine. Tartile sensibility was pregerved

The farrdic irritability was normal in all nerves and muscles in both lower extremities. The upper extremities face tongue cranual nerves pupils and optic dacis were normal. There was no evidence of die case of the thoracie or abdominal viscera. Richiographs of the verterbri column showed nor mal conformation and there were no indications of cwotoses. The Wassermann serum reaction the blood count and urine examination were negative in result. No exerbrishment fluid could be obtained.

It operation the tumor was encapsulated and the root of the cauda were spread over its dorsal sur face. It extended above the level of the tip of the onus and the entire spinal canal was filled by the tumor mass. The growth was left for extrusion. One week later the tumor was removed a d the patient improved slightly, but died from e has tong months later.

Ih p th logical report is as follows le I f the conus the dural sheath was filled with tumor mass to which it was intimately adherent The mass was of a fibrohy time structure pushing some of the nerve bundles of the cauda equina ag un t the dural sheath an lenclosing others within t sub tance In the middle portion of this mass th re was lo gitud nal cavity about one and a half inch s long At the level of the first sacral segm t it was less hyghne but somewhat granular. and in the lower part of the sacral portion, the dural he th closed a tumor mass the size of a pircon s egg which on section was mottled grayish red and coarsely granular It was loosely adherent to the surrounding dura and the nerve bundles were disposed peripherally to it On transverse section made at different level of the lumbar enlargement th entral portion was found to be hollowed out by regular longitudinal cavities The tumor was a glioma I DWILD L COR ALL

## SURGERY OF THE NERVOUS SYSTEM

Roch t ad Latarj t Surgical Methods of Approach to th Hypogastruc Plexus and Its Ganglion (Étud h. 124 dord hur, 1 d ple hypog trque et d song ghon) L h 0, 3, 4,5 B, Journ 1d Chrurge

Rochet a d Lat jet believe that the sectio of the hypogastric g glion indicated in some diseases of the bladder It must be approached eithe be star or intrapentioneal laprotomy. In the first case aft c the rectus muscles have been separated the bladder is dissected first antenorally and then steronally It is then drawn forward toward the pulse so the t the dissection can be carried down to its lower part and the seminal ves

icles the var leterens and the ureters explore? The ganglion was found a little invite the last seem of the litter and ab ut a finger's been ith below them

when the interpretion all route 1 chosen the when the interpretion all route 1 chosen the formal way and the first of crossing such the duck well through a fluid opening mode in the personneum then prolonging the incision the uniter is f llowed down to the bit ider and I have deep behind it bette a the rectum and the base of the blad for the ganglion is cloud with numerou [Luca yn noff from the liver bonder. The evternal face of the ganglion is lenseled that the contract of the contract of the contract of the contract of the depth all operating the state of the ganglion causes an immediate and cottoning of the ganglion causes and contract of the ganglion causes an immediate and cottoning of the ganglion causes and cottoning o

by Rochet and Latarjet showed enormous distention and incontinence resulting from it

The operation may be indicated in man in some case of stubborn at levery paried optiging with tenesion as he seem no dy as full cases of cytains and expectably in toberculous of the bladder chross retention without pain and with regular catheterias. Rochet and Lataryt tired this procedure on a pri ent with in perable inherculous of the kellery and his life it he result was good and the pri ent was relieved from pril out this he dealt a month little with the bladder but been opened and remn and determined whether the fib order that the contract of the c

## DISLASIS AND SURGERY OF THE SKIN FASCIA APPENDAGES

Coerr D II Blumuth Pa tea a Primus Dressing for Sain Grafts and in the Treatment of Burnand Granulating Wound Am I S g 19 4 32 71 By S 72 Cynec & Obst

Luete e un th nous fresumes f e skin graft with somm t in their deadvantages The author's method as st of impregnating or buttering strips of timle gaur is or ight in era in thickness with stende 33 per at Necks bi muth paste These trips an lud breetly over th newly implanted grafts at ding for two or more inches beyond the area ( the would no fld or wrinkles being permitted to main. On rithese is placed layer of absorbent out and the free ing held in place by roller banding. The first dressing should be done on the tith lay and espect I care should be ex ressed in the removal of the prim ry ers third freeing subsequent dres ings are lon or fourth do. These irresings ha c health graft I they ar held frmis in the becomes almost negligible and there is exclient prol feration of the epithelium. The dr sing ery comfort ble and the resultant scar soft and of able (our al uses this past as a primary dressing in burns tir to I I NOE Ber

Smith O C Hygroma Cysticum Golit and Hygroma Azillar J An V 1 94 ls 5 By 5 cg ( nec & Obst

The literature on h groun 1 meant and the nomenclature condus on a 1 to 1 th thank th term should be restricted 1 th walled multilocul'r cysts contain ng clea fluid linid with end thetast cells and porso-ung u und renden; to grow These tumors ary n ze from mail affairs to enormou di figuring growt usually occurring

enormou difiguring growth usually occurring in the neck and sometimes tending downs ut under the chivide penetr t in the med astinum or passang under the 1x icle to the azilla or pectoral regions. They are frequily congential nd usually seen in hid n 7h; ar problib

mbryonic sequestr is n of lymph tic tissu with the power of persistent growth (lioud) The oper is rainly of these cases is respon ble

I r incorr ct I gauses of cases only being report of In lo Itelli uch crists ha e been removed a d I if is a f iron had or thyroglosal onen They grow t enorme use and do not tend to spont neou recovers Iro Do

Massenbucher J. Fascia Tumora (fle Fstern m re i R ir. i. Cit. og jist vir 60 Bi Lenterski i d grs Ch. (rensenb

The uthor work heed on a tuly of 27 cases from the literature, nee 800 and for from the fireduce (hu in e 004 4 of these were in the abdomin I wall 4 in the faces of other parts of the body. His conclusion in e as follows:

I a growth of the f was of the entire body not myly of the abdom n i wall should be included un ler dermoids \ \ \ t t the alsom nal wall the loc tion of hose the atremities Often der most ar not recognized be ause of their small size Of the belom and wall tumors the gre ter part ongonate in the post mor he th of the netus next from the puneuros I th I liqu muscles of the bdom n and mo t r rely from the epiga trum The point of ingin in the atrem ties i the super neral fusers of the thigh precially Scarpa triangle These tumor which are mor frequent in women especiall t those who he borne children gen crally appear n the thri and fourth decades but conge tal ones ha been beered in children ad been known It is northy multiple tumor, h of note that they may be trached to the perro-teum of neighboring bones t for a tance the xiphoid process. They are from the use of a haselmut to I t as kg I'm se ents I the imptoms tames m th the 12 but et mail tumors may cause pain The paint of growth depend on their hi tological tru ture whether they are fibroma to coma esteums and also n fibromyzoma

their richness in cell—which increases greatly in pregnancy—there are sometime muscle elements in these fascia tumors

'Is for etology in a ld tion to pregnancy men tioned above navus and trauma ha e been sug gested. The differential diagnoss may be very difficult in large tumors. The only treatment is operation. The prognosis depends on the micro sconical meture.

Giertz L. H. Fascia Lata a a Substitute for Tendons and liguments (Uber frei Tran plan i ton der F van 1 i ab Lasti i S haen u d Bander) Dr i k Zi kr f Čk 9 3 vx 450 By & trable i d ges Cb i Gerangeb

Giertz in spite of unfavorable e ternal conditions had very successful results the first time in trans planting pieces of fascia lita to replace extensive losses of substance in tendons. In one case he replaced 15 cm of all three extensor tendons of the thumb

He laws great stress on the importance of passive movements from the first day after the operation which can be carried out without any 1 jury. In one case the lateral ligaments of a first joint at the knee were successfully replaced by stress of fascia.

These three cases how that fascia lata can be used to replace tendons in the human subject Very long sections of tendon can be repliced and the fascia holds extraordinarily well even unler the levit fivorable conditions and forms ten' in s with completely normal physiolorical function.

## MISCELLANI OLS

## CLINICAL ENTITIES - TUMORS ULCERS

(raef W Trauma and Tumor (Tra m d T mor) Z 1161 f d G t b d Med Ch

The question of whether trauma can cause true in formation has not been proved experimentally and the results of clinical observation are by no means uniform. It is certain that artificially produced atypical epithelial productation has nothing to do with true mil gianti owe growth. In general there is more frequently a history of trauma i room; and of reperied thermic or chimic i intaition in carcinoma. The latter is e idence in itenate of the roots surrition theory. The appearance of beings tumors after trauma seems to be rartly Joppy; causes only a part of the traumati

epithelites t also of I pomit while are m

the hith dec niv

The growth feet meripal tired two hos meet two. It his the time free toon in he drome dend he how how the metallic meeting to the time free of the meeting mee

or man ir nom mut be on ilrisoptat lith mm ig uon icanor seditudigi lidit i ljurpo es annot bemil

use of Lactinoma of the breat t cems to be of train mut congin most frequently. A history of bruiving is fren reported and the prevailing location in the upper outer questiont i of significance. In critical moments of the lips tongue face and extrem ties appearing from the fourth to the st the decade there cartly ever a history of violence but in re-

prequently of repeated irritation

A traumatic origin—presu tence of infimmation and ule—for internal cancer seems the most doubt till. In rontgen carron my an overdose ha been le seribed as the curse and such an accidential origin he been imitted. Tumor formation has also been tirth tet do rest infection as for example from moury during operatio. The succomita regarded traum til generally affect, young men in the lab r

g classes during the thri decrede an larg general link i moderate reserce jury with a blunt trum i h fits to theil were exit miss meaning type listen the work; rish the pre-thing type listen the work; rish the pre-thing type listen to the work; rish the product the ground that this is a systemic condition it is dout if it whether traumy may not be hid to ble if not f r the output at least for the loc hastin.

The uthord scuses the awarding of damages for tumors caused by trauma in what cases the symptom of the new your hould have appeared in purpose of the new your hould have appeared in anation symptoms a must tumour may be brought to light by a trauma color terms of the symptom of the new your hould be not a more rapid growth or because it leads to a more carping examination portaineous fractures are seed as example as there are seed as example is their or the netter trauma must be as good as the cause of tum r inly with great cautions and the author war agunt the interesting it a bence to treograms.

# INTERNATIONAL ABSTRACT OF SURCERS

Cumston C.C: Diabetes and Surgical Operation H & S J 1914 1 310 Cynes & CHAL

That dabetk can be operated upon a th a au cer ful uie me h & been repeate il) al man The chances for resu ety are much greater hos ever when the patient has been sul jecte I pressou is to a anti-habetic liet to reluce the glycon ria a mu h as per the 1h I t shull be I though nun n se jon the in it is n un it i nower until the i cilly reflex he returned litt was family absent. (The urin huld rot contag a ct on er plot ylutyric act i literatewn should be ver plot ylutyric act i literatewn should be very polyculytic ac it it ireatenini should be very minute in 1 ta 1 although il re h ve been ma v

succes ful yeraticas performed where time I I m t alk a of a th nugh het ng The authors t we are subjected to a liet con at the of troiled me t point and gluten to ad and justee of geen regitables likerilossie of a I antiti hy nat raregu na a toutire Onum is used to check the gl course and to I mi the the rst and hunger Im g other lengt used re antipythe arem a lenan quaine and sanou

Wherever just e he I a miles should be morrerer function were a source around the of the a from upon the 1 r I ther I receded by a tre a two moon town i age eat i ag te Dabeti s are

general anaratheth i neces 113 unper to t erec ll) lable in intert an land par techn que which i the elean are would be no tal res lt might result fitally in the ave fia liabeti

u P Diabetes and Surgery Short Report
Containing Mao in Siew of the San San San
San Sanders Minkowski Pyr I sho do
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VAN NEBE 31 We the ming of large down of et lum bie rhonat to et r) fiabetie before opera that I he I are of the ti ues is d cre sed in hat to e en when there is no lection. There is great I neer of hemorrhape especially ne taract great Local anneathes a preferable reperal Ace reingt Mit & asht th se ent) ( the d betes and the se er to of the operat rade termine the progresse but either one is beout he leet the The fullet m i re se in t ten i first the oper too a for may preas rid prerier tie oper 110 a 100 ma) ppear ru pres er i mis) increase n nt 11) The anaretheir musi te carefully chosen the ures that layer the t ures mut be led. Wire the operation the t we must be fird the most ever all point to diet must be fit ted the most ever all point to ng the bund i limit ration falkalies.

Lambert 1 5 and Foster B The Dietetic Treatment of Cangren in Di betes Vellius. THE THE CHANT WORK 7 1 11 11

Ip bushose 4 th base t all treation t the In leading a to both the state of the state iff me of t im t ad emph use the

the major to an emphasize the import many of a rief or these patients has fall to the patients have a fall to make a high reliased a fall plant to a fall plan listets & g ne nd more proper pet not as

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the theories ha 114 tremittee 41 1 ft n n.Pr he natu | the process h h 1 14 וחים been i ned

its underlying causes. Then, cm to be several factors all or n combination of which mi be precent in a give new. There i an infection with micro-organi m inex ry case and there is no perife organi m but the common nathogenic forms.

In addition marked arteriosed from or a myrked achoolied chittless may be present. The suthers believe a process analogous to Raynaud disea e appears in certain cases. Sexical consideration suggest that it is possibly the increved amount of usagar in the cruciating blood with chims he e e duced the ritting power of the cell. If the lat of the control of the contro

It is not their contention that every case of gangenee: of the type which yi lds to the deerin regulation. It ulminating cives in which high amputation; individed occur occu sonally but it be rational to gay each case as thorough a course of detary treatment as possible especially us the results of typical treatment are most uneasti factory.

It is necess rs to restrict the robots drattinges to an amount which i compilets utilized by the patient. At the same time it is well to remember that the total withold ling of carbots drates for more than a fix days it at time may also le it injury to the patient. The problem them it is not the amount of it rich to give.

The authors t ke the question up in some letail and have formulated the diet used be them not two tables as follows:

#### TABLE I

Breakfa t Eggs chops broiled chicke fisl (freels salt or smoked) ham bacon tomatoeomons m shrooms (broiled or fried) coffee table-poonful cream saccharine to sweeten

Lunch Clear meat broths me t of all kinds game poultrs fish green regetables served hot with butter sauce p ch. Brussels sprouts string bean asparagus ritchokes salad of lettuce endir cucumber r tomatoes with oil and integar 1 and kind of cheese

Dinner Cle r broths eg consomm in t sam as lunch artichok root as sub t t r tor potato cabbage asparag spinach tring bean served hot gelatine J lies and custa ds weetened with saccharine nuts of any sort everet he tuut Black coffee (1 iver t whiske) if (des ed)

## TABLE II

The food in the list t be taken only in the amounts ord rad

Soups	Portion
Bean Clam cho de Cresm of corn Pea puree P tato Tomato	1 erag A erage Average Average A erage A erage

Vegetables		
Beans baked	411 61	
	tablespoonfuls	
Beans, butter	table poon! is	
Beans luna	a tablespoonfuls	
Beans Lidney	2 tablespoonfuls	- 1
Beets	2 table poonfuls	- 1
Com green	ear	:
Omons	2 01110	1
Corn nn d	table-poonful	
( reen peas	tablespoonf !	
lotat b ked	medium stred	
l otato boiled	medium sized	
Potato mashed	tablespoonfuls	-
I rut		
Appl	r medium sized	
Blackbernes	2 tablespoonfuls	
Currants	3 tablespoonfuls	-
Hucklebernes	tablespoonfuls	
Orange	medium sized	
Peach	r med um szed	
Pea	r med um sized	Į
Plum	medium si ed	
Rasphernes	methum sized	
Strawbernes	3 tablespoo fuls	
C reals	4 tablespoonfuls	
Bread slic 3 x 4 35 inch		
Hominy boiled	z tablespoonful	
H-O boiled	a tablespoonfule	1
Macarom boiled	tablespoonf l	2
Macarons baked with Cheese	tablespoonful	2
Qatmeal boiled	table poon! L	ī
R ce boiled	tablespoonful	ž
Shredded wheat biscuit		•
pagbetts baked with tomato	tablespoonful	2
1	DWARD L CORNEL	ď

Janew 3 H H and Ewing E M The Nature of Shock. 4 Surg Phila 10 4 1 158 By 5 rg Gyne. & Obst

The authors present a summary of their investigation to the amoust horse of shock and the sprint tal data supporting conclusions which they is arrived at Crile's fatigue of the vasomotor cat to and consequent lower g of blood pressure until the erroral centers no longer receive sufficient blood uppl to enable them to functionate normally in the right theory discussed \( \nabla one can fail to a the proper summary of the longer pressure and the conference of the longer pressure, with the onest and development is shock.

Janea ay and Ewing state that their work in the main agreement with that of Howell Porter and VI liter demonstrates that (2) Lw Movel Porter and VI liter demonstrates that (2) Lw Movel Porter is an important symptom of shock, but a minual may pass into a state of shock with a billion pressure which is still far above a point below which is the intervols by term fails to functionate normally (1) It is unlikely that change either in blood pressure or in the force and output per learn of the heart or augu atted by faitings of the of the heart or augu atted by faitings of the of the heart or augu atted by faiting of the offer and in other asses of local perspheral owns.

The authors then inquired into the causes which lead to shock before blood pressure begs is to fall From experimental data they conclude that (1)

# INTI RNATIONAL ABSTRACT OF SURGERA crooms that had been kept at a low temper ture

6nz hock I reduce I by hyperrespiration 1 not lue to dimini he I COh, but to some factor which is lependent on increased intrathoracic pressure such a condition as the interference of the venous return to the heart (2) that shock following ventil tion of the al lominal cavity and manipulation of the intertines is not due to diminished CO but to handling the intestines (3) that shock following naming the intestines 137 (nat snock ionoring of handling of intestines is not like to exhrustion of mere centers 1 pro ed by the rapil recovery of animals in a state 1 shock i llowing transfusion

In conclusion the authors m Le the following B) handling of the intestines a complete splanchnic pyral) is of local peripheral origin is produced and it is the paralysis which causes the ubsequent fatal fall in blood pressure and not exhaustion of the new centers If traums to the sensory nerves is a fact r in production of shock in an unconscious anire l it is wholly sul sulary to other factors and it is questionable

wh the rit was apprent in ou experiments The all important factor in the levelopment of shock in a far as the firm which we has estudied may represent hock in go eral 1 los i vasomotor control The mechani ri of thi loss in lits m in t nance is important. The loss i ontrol an in maintenance; net reameilt a pni or central maintenance | new cause 1 () a pm or central nervous exh ustron | 1 lk fr m ff tent my ubes uctions can assiss 1 to 11 to 11 to 11 to 10 to more especially apparaturatic states of most est after my ha emitrate i the shock i contributed in the loss of contributed in the ant which nime the time principotance and managementation and market unique to postuce tion loss of blood milit ums to th

off V h life of th Tissues Out ide th Organi m b like d (welle we h l d Organi m ) like d (welle we h l d Petroff Y Y ut kih hods

hi t thi u b sed on are many and the first the mid i the . 1 diff rent i u | f klingth if tim t for Imbry n t suce h . • f m mautes co tinu | lie n t m . epithel um th t pt the f 15 alter th blood up th th t (th had bak

th taft r I th me me t an this is ward are not ed th t the h in nd nt hf mard are not cut be ! ! րեւյ m i i Bitwh i The firt 1 1

ormerwa w michtwhill is pace of till is the filling ser ed thicker i ult grad in hook h shown the thin î. plit . 1 result ar be n i l 1.1 li la imili after that by t pl nt t and then mim t th ı Mt mpt in ) [ led - 1 and then main ( ) in n on an male of lift n t of I brisch ucce d i n th t 11 'n çì

for two years Petroli h meelf inject d an emul sion of m crated guinea pig embryos into adult animals with a needle and observed that different Linds of tissues leveloped from them and h ed for two and one half years Further experiments relate to the pl ning of ti ues in arious med a In the most important of these experiments the

heart the uterus and th | ver have been molated and kept at e by pa ing a continuous current of Locke s or Ringer fluid through their blood vessels Rour was the first investigator to tran plant cells into egg albumen Harrison and Burrows have grown it sues in lymph and blood plasma while C rrel has extended these experiments

Tech cal difficulties are enco nte ed in keeping the pla m steril [ r this purpose the blood is received in strike par fine vessel and centralized The gro th of sm il cultures is observed in hanged dr ps at 1 reer ones in Grabit chews 1 hes em gration and reproduction of cell can be ob me! The best by ct for experimentation are embryome to suce the best culture medium blood dasma f an anim I of the same species Growth is possible on the pla ma of another pact a but it is slower an I grant cells develop gn I degenere tion On this nutrient medium tissues grick ! r shout 8 d ) by being spinkled with lymph or shout 8 d ) by noing springers and 1979.

Ringer's fluid or by new implantations their length
of life c n be prolonged Chemotropism can be observed in cultures of tissues The addition I observed in cultures of clistics. The addition of the growth 1 the presence f an antigen and bod s are formed t th cultures

Nation A J On the Suri al and Transplantable in of Adult Mamm Han Traue in Simple Plant J F J Med 04

Whon describes ultures f thyroid spicen witton describes uttures (thyroid spacen
switche k ine) and h er treat in sample plasme
without th ddition f t saw stract He and
that the great the financial has been can be prologil trairen ten mannin in insperior se plogil trairen ten ten ten medium in a few ontinued for 10 r 12 genera c see th gr with w untinued for 10 r 12 general insulation of growth seed aft r 3 or 4 general forms

ton 4 J Th Techniqu of Cultirating Adult Anim 1 Thaues in Vitro and the Cha acteristics | Such Cultivation J P 16 F 6 By Curk Gynec & Obst

The author rplains 1 d t il the method all produr lent to obturu g the growth of adult

tusure in blood plasm.
He is the the growth of these tissues min mad from the flow thyroid kilner testicle nii ni riuli i los their groath bourin ii ni riuli i los their groath bourin i i the hrst d ) i the riulia t chinge of each cutive lay i

The spl en is charact rized by an overgrowth of roun I cell In the thy road the parenchy mous cells predominat f r the first four 1 ys after which there is an overgrowth of connective tissue. In the bil pey the new growth is mostly parenchimatous culou lal cells predomin ting The testicle an I h er how similar changes I t Gt

Castaigne Toursine and François Severe Teta nus Large Doses of Serum Recovery (let nos gra Serothe pie massi s ( & son) B II ? mem Sac mel d hap de Pa 1913 \ 38 870 By J mal de Ch rurg

Tetanus le eloped in a young girl of 14 ten days after an injury to the leg. Three days after the first attack which was very severe an injection of serum was me le at the la teur institute. The temperature wa 35 pulse 120 she h l attacks of haryngerl sp ms Within 12 day afterward 60 m of serum were injected by various method intravenous spinal subcutaneou para ners us rectal The patient recovere !

The interest of the ca ches in inofacts ( ) It was almost apur ase of serum tre iment the nly other m i tingi nwasa gm chimalin lays (2) In spit I th high losage there a r nlv moderate s gn of trum kness urti arril r gen ralized a rinting em rath my and rise of t mperature Th auth rs il some unil r ase to the own Nett r ith ble ed in the fica ) flarge loses of atit time erum He ite in upport f hi of then the recent tatistics f I and of B es for wh b the use of larg doses of strum ir m th lat Install ured sutfrausof t t nu MA R (R V L

## SERA VACCINES AND FERMENTS

II The Wasserm on Reaction with Speci 1 Con Ideration of It Clinical Availability (1 W ee m ul R Lt mithewardre linux has kinch \ partb \ 1) B b

B Antrill (dge (h ( prz ł The grapper of hill Banorih met with cyah ed hm to 1 ue hhhr en tharmuly i refut. ce wedltet I the subject and discues at a all lit tith W sermann rea t a f 1 om c w II th w in oro m at րքԱԼ . wh h re rec mmended 11 W TIT th g t k ldge nl pen m k th it lt to t nu lls lent 111 f the peculiats of the Π· . W ilit som ex t ri l t h pres to fly that t n ph! tall ıf t ٠, th t it thecalt Tt. prote tu thyma ha t M Int The Labe n • int 1 1 will a per l arr m ١

Donter and Pauron Treatment of Gonorrhoral arti citis and Gonorrhoral Orchitis with Bes redla & Sen Itlzed Antigonococcus Vaccine (I im tduper le hmtim td l rehit le ser gue par l reith le d'actin antign nonce e sen l'iné de l'esrella! B' l'em bec m d'd kip d' l' 1933 356

By J rold (hrung

D lighted by the results obtained by Cruvedhier in the treatment of the complication of gon refue t with the antigonococcic vaccine which he had pre pared at the La teur Institute by Be-redka meth od D pter and Lauron a L I him to apply his m thad to exert cases in their service

It is lesenbe in letail two cases with arthriti appearing first in the knee an Lankle joint later in the art t joint with recovery in both cases. In th first case however the urethral hischarge per

ted an I contained gonococci

Cuvalluer cites a cree published by the B logi cal society of a gonorrheal arthritis of the hip wh h although it had kept the patient in bed f r m nths imprived very rapilly after injection f the v ru vace ne lle has also tu hed the acti n f the vaccine on gonorrhogal orchitis and epilibratt In 5 cases he found that the pain torre I in from 12 to 24 hours afte the injecti n and that the welling lecrease I rapilly Conor h al urethral d charge i only sightly influence i by the ini ti n

Ir tment with on itized vaccine seems to be a gr 1 3 1 3n in the ther peutics of the most pain ful and non complication of gonerrhead info M truttav t

## BLOOD

Hilse A l'at Transplantati n to Control Ham r hage from Abdominal Org no (Du fre 1 tt tra plat ton beillt n der pur h math B Zent 11 f 1 pes. Ch 1 mm

llips i omertum facts a l triated much pres suly been used t tih m rehape fr m prohmlugn in the meth lihas mor rles hal ant ge alth ugh the trtl bleed gests fat rile II be locked 1 it for a ne m th ! He u ! subcutaneous f tty ti u for ta plant tin a the alway presert in all cient quattra Il only lash ni gethat h we in to the flarg flaps of fat are r m ved th edges ith w un! nl maed

The aperies not were mile a rail to from libps file her pler nikit i bri ben seeted Th fat wit hw thn from the tighwa feed friend oil seeth i great if ham ribage might have be n tint tilt the itle f polit lect li am re er al senat mille les tree lithe a mal apenur nt of I hall ar I Lahga a lets efriberita estiretoffav n. I pa I fat were att wit th 1 and ng thith edge fith tapprint the

edges. Refor the flaps had be no fa tened in 1 mi tion the blet ling generally topped with n one to three minutes — secondar the ling was n ver ob-

In som animal killed a hours to cd s after the operation there was a harmat ma between the uned fat fip and the wound I thave the fit w maked outward a little and the block his large hedre outsain a miss and the perments with fiscia it seemed to Hilse that the !! eding we not st pred so quality With flats I mentum the effect w a q al as with ubcuta courf ity ti ue In tw hum n cases of gall blatter operation h mor rlage from th ! I f the l r wa topped in a The part persone rewin m !

fally lissue Crutti Indirect Tran fu ion of filead Sert in both case R's or Lener & O'n 0 1 10 4

The uth r m e a or smal technique for in Carre the ush the a or gine technique breaters to be tillow! Although mp e il nil beet gfulls d classi th brator and amond i time it in ability and it is the walling meeted a

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The suth ery 1 t h been arried an

## BLOOD AND LYMPH VESSELS in Ptiulogic

nd lates J 1 ting ( ) no tage / 1 = 1 4 Bunting ( 11 ul reported 10 4 1 4 5 0 Bunting and h t h t the inhtheres! common cult ated 1) the 1 column cult 5 produ ed

les sof the homen nodes at using all the essential fatures of curis likeligh no lises our man. Since mak or this primarry port the authors experi m nial work has kmonstrated full the pathogencity of the culture they were u ing an I has furiter shown that the rul ne of the organism to the monkey may ea ly be mer ased even to the por t I producing death f the a mil after a relatively acute films. The 2r ( ) if ulty seems to be to secure infection ar I at the same time to avoid viru I ne so great as to produce exten e nectures where g and e n uppuration The norting

pare letween these too I m is R Exters e recross a l leuror t infliration of th gl nds may seem i re gn t th would clinical pictire of the lymin n les in Hodekras da w et a recent clinical case ha temonstr ted that e n in man the s rule e f the organism ma be such a to lead to these features

the r results i heate that the serie al of an salm I for the require the length of time is all that I nee led fra I mor tration f the chronic lymps of picture seen in the li kill ye I case of ii | tin | 1414

# SURGICAL THERAPEUTICS

beloff i lifect of Collargol on Infection
(I ber lenk e weder hell real uider lef kilon) t t t t to dil all a Currep

After du we gith It ature of the question the After d. w. of gib 11 aure on use questions of author g. th h tones 1 5 are 1 e-past of different eng. at h h tra enough to 1 petts of 1 petts of 1 petts of 1 pet injection w mai once r twice did according to the fit fithe se Orina is the tempera t rue 41 6 hours aft ribe ta crous jection 40 degrees and then & lu la w h

In the suit r ares there we generall an irr an our auto r ases taker wa general sin ich pronteri nt fier the first injections nd four cases eco e ed mi re ane i es myes rome nei nour sans a por m died Th blood m i in was al able i prignant which the i able sea boned ni cre se le ucita

I me or gred by the abo trout the uthor tested the first I collars I on the growth of bacteria. He ed out he perment with coli communis ntrat ( 1000 in th nutric t medium was ufficient t kill the two form but 00 was re anthra ou red f r the 1 ft lococcu B intra enou in ld be eached to too could not be ject a ufl sent oncentratio at med He further deser hes h experiments with

t ut neou nit nou nd itr perioned in feet moi att t with the 1 e n med bacteria nd the first of 11 real the o ree of these infec 117 3 1 879 t ms nth

In subcutaneous infection with colon bruilli all signs of local inflammation were less there was no necrossoft issue and there was less in entemperature in the crudate of control animals there were many bottens and few leucocytes in the treated animals thas was re-cred. In ubcutaneous infection with anithrax the local asymptoms were milder but the animals all died of general infection though not so soon as the control animals.

In subcutrneous infection with staphylococcus the control animals developed abscesses and died of general infection while the treated an mals only had cedema at the site of injection which disappeared after five days In intravenous and intraperitoneal infection with colon bacilli the animals treated with collargol recovered while the control animals died of sersis. The collargol in these experiments had no effect on the course of the staphylococcus infection no experiments with anthrax were made in this series. In the cl n cal cases as well as in animal experiments the author found a marked polynucle ir leucocytos's after collargol injections. In order to decide whether the collargol acted as a bactericule or whether the results were produced by the leucocy tous he placed a tabbit infected with colon bacilli and treated with collargol on ice which produced a marked leukope: a and especially a d crease polymorphonuclears yet the animal recovered

In conclusion the author describes a series of experiments in which he confirmed the result of privious authors that the collargol in the blood and exudates was found for the most part 1 the leu cytes and mong the organs in the liver and soleen

He comes to the following conclusions (1) The collargol acts on the infection chiefly through its bactericalal properties (2) it is contained for the most part in the leucocytes (1) this explains its slight effect on subcutaneous infection with anthrax which seems to be a contradiction to the results of titre because anthrax infection pro experiment duces a serous exudate w thout migration of leuco cytes It also contr ts with the results in local staphylococcus infection [ her evid terich in leucocytes is formed (4) Bes les is bacteric dal effect the collargol products a polynuci leuco cytosis and a use in temperature which ct as uxil ury factors in the struggle with the infectio (5).
Therefore coll gol c be used with good results if it has a bacte icidal effect on the bacteria causing the sick ess and f there is pus In bacterum a it

graficant that the collargod deposited by the blood chiefly in the same organ as the bact rule that the bowe oo ditions the collargod may be of great use if t i given early and n large doses.

Rese, were

Beck E G The Present Status of Bismuth Past Treatment of Suppurat ve Sinuses and Empyema 1 S g Phia 9 4 b 45 By Surg Gynec & Ob t The author t les up the use of bism th paste in all its physics citing several cases as examples and g1 ing a summary of the results of other men throughout the world

The causes of the future of besnuth paste to do the not required are several. The most unportant cause is the future of the paste to reach the seat of the trouble. It is essential that all branches of the snus should be filled with the paste. Sequestra foreign bodies and faulty technique and in insufficient, knowledge of the rules that have been laid down for the injection of the paste have been laid down for the injection of the paste have been the principle causes of the

fulures
To maure success in employing bismuth paste the
essential points are summarized as follows

r \ correct diagnosis should be made by all methods available and same should be corroborated with stereoscopic radiographs before an injection is

made

2 Before attempting to employ this method the operator should acquaint himself thoroughly with the technique

3 The proper instruments should be employed in order to carry out the technique correctly 4 The prinent shoul i be kept under constant observation to prevent bismuth intoxication

5 The secretions from the sinus should be examined before the first injection by slide and culture and often by the inoculation of guines pigs then three lays liter the sterilizing effect of the injection should be tested.

6 As long as the sinus contains micro-organisms t should be rea jected but if it i found sterile t should not be reinjected

should not be reinjected

It is good practice to wait at least one week
after the first injection before repeating it

after the first injection before repeating it 8 \ sterioscopical radiograph of the prits affected should always precede the first injection in order that the presence of sequestra or foreign bodies may be detected. The shadow of the paste might make their prese e obscure

o Following the injection a second set of stereo radiographs should be t Len in order to make a correct anatomical diagnosis

10 In case a foreign body or sequest um is present the inject on is useless operation being the only means

\text{\text{cute s pourat}} e processes should not be

treated with bismuth pa te nily chron c suppurs tions both tubercular and n n tubercular Bismuth poisoning may be easily prevented by using only small quantitie or when large ourn

ities are required they should not be retained longer that en days and the patient should be carefully witched 3 Facal fistule and other post operative sinuses

are very favorably flected by bismuth paste treat

4 \ ten per cent bismuth vasel ne may be used in cold bacesi. In practically all 1 stances the secondary infection can be prevented providing the technique is carefully observed.

TOWARD L COR ELL

of the uterus has only a limited value. In spite of the negative histological results viginal total extripation was performed in all cases because of the clinical symptoms and in each case there was a beginning caranomations process in the fundus in doubtful cases therefore, extripation of the uterav that is indicated by the clinical symptoms abould not be given up because of deceptive microvological findings. Schwerzin

Rad um and mesothorium shoul I be regarded as nothing more than pallistive measures Operable carcinomata even in the earlest stages should always be operated upon as no one can guarantee their radical cure by radium. Met treatment of perated cases by irradiction is on the other ha d justibable and often of great value. It must not be assumed however that mesothorum treatment is harmless the process of absorption disturbs the general condition considerably The secreting general continuon considerably are secreting surface should be frequently cleans I and I infected with functure of iodine the loses of ri hum even when strongly filt red should not continue over twelve hours and should have lypers of two to six lays between them The radium carner should be adented to the shape | | the tumor and be brought as near as pos ible to the part to be treated The tissue lyi g over the carcinoma may be incised For cases that have not passed the bounds of operability too far a preparatory radium treatment may be of value INVESTIGATION.

Chéron II and Rubens-D | 1 II The Value of Radium in the Treatment of Uterine and Vagin I Cancer (Dber d. W. t.d. Radiu and pie n d r B handl g d t m. nd am k. krel so! Fortsch d (b.d. Rof gr. f. dkl. 1913

By Ze trilbl f d ges ( ) ik ( burt h a. d Crenzgeb

The ch ef points in the techniq e of radium treatment of noperable curronmuts of the cervix body of the uturus in dvagna are as follows. The use of Dommers is method of Intrapenetrizing irradiation with measure doses a d increased filtration with measure doses a d increased filtration with measure of the control of the

marked improvement in cases where all other treatments have failed

In 158 cases treated in the manner described above there was one certain anatomically demon strated recovery 155 improvements of which 05 were very pronounced and 46 off which were probably cures in two cases the results were negative formers.

Schauta F R dium nd Mesothorium in Car cinoma of th Cervix (Rad m and Mesothorium ber Caren ma cer cs) II nalsch f Gebirtik

G. it sets por any set of the production of the production of the Crank Geburth is d Greungh After the use of 10 mg mesothorum for 42 hum he author saw no effect except accrute decoupe stilen Svrty we miligrams of assecthorum of the production of the great production of the effect of radium follows and then a set of 8 to 10 days given Radium section on effective than mesothorum III deductions on the effect of radium films

in offset of rational, in the first or at latest the third series so if you will be series as on the series as one of the series of the series as one of the series of the series of the series of the series of the parametrum sometimes remained stationary sometimes decreased and the nodular masses in the central chappeared. The effect is elective healthy tissue as a prevent affected.

3 General effect Headache loss of appetite pain in the intestines and bisider constipation and durthout sometimes trees in timperature hyspecin. I 24 hours after the remove of the rad um

3 I j tous fects Two severe hæmorrhages, a rescovagnal fistula stretco agnal fi tula —although at it is a question whether the fistular can be attend to the radium

In radium treatment Sch uta recommends that the following points be taken into consideration The uze and location of the carcinoma the extent to which the septa between the agina and rect in and vaging and bladder are volved and the general condition of the patient and that all perative cases hould be operated n as before preferably by the autho exte ded agual radical operation which gives a mortality of only 36 per cent After the operatio a not too intense rid um treatment is indicated All inoperable and seve e operable cases should be given radium treatment. It is contra-ind cated however whethe septs between the d bla lder or rectum are in 1 ed and in severe achema \ dose of 40 50 mg radium is sufficient and should be left t positio 5 days followed by ten d y rest and then re ewed appl cation Care must be taken that local recovery is not mustaken for real recovery which cannot be assured for from three covers commissions of re

Berdez Rantden Ray Treatment of Magmata (Über die Ro tgentherapie der Ms me) Fot & a d Geb d Rolly 1 1913 xx 393

By Ze traibl f d ges Gynik u Gebutsh s d Cremgeb

The author reports 82 cases of myoma and 20 of uterine diseases. There were few failures three times ha morrhage began again with erythema with no serious complications Following is a summary of the technique Hard Viiller's tubes and radiology tubes (9 11 W) 3 mm aluminum filter li truce from the skin 20 ccm two fields one on each si le g ccm in diameter Irradiation is from two direc tions on each overy the apparatus being directed from above downward and from without inward Compression of the field 1 produced by a Luffa pad to render the skin arremic and bring the overnearer the surface Treatment is continued during the menses in order to make use of the increased cir culatory activity to heighten the effect Each field is treated until it assumes color III of Bordier's scule t H Five to six treatments are given in a series one et ry other day with 3 weeks rest be tween eries The results are satisfactory In suitable cases l'reiburger a method may be applied with Kronig's apparatus M LLER CARIORA

Philips T B Myoma and Sterility (Myom ad St that) Description B in 9 3 By Zentralbi f d ges Gynal. Geburtsh's d Grenzeeb

A letailed review of the literature follows the statistics of the Amsterdam Gynecological Clinic which includes 1 ons myomata. Of these patients 814 or 75 5 per cent were married and 241 of these or 20 0 per cent sterile 264 or 24 5 per cent were unmarried Among th 814 married patients there were 1 90 children and 441 abortions that is 2 25 per cent children and ly 0 5 per cent abortions or counting out the nullipars: 3 22 per cent children and o 8 per ce 1 bortions The author concludes (1) There is a certain coincidence of myoma a d sternity r at least decreased fertil ty

( ) The p oportion between nullipara. nd multipare is the same among myoma patients as among

women in general

(3) Fertility is less in married myoma nationts than in women general and abortion more frequent

(4) In myom pitents whahot the time se ms t be the ca se of the abortion a about half th case is no lly the tumo follows the constitution of conc ptu

(5) Myom is not a bsolutere son for t mits th uch th re often found togethe n the sta ustics

(6) 1 hc mi ation of myoma with sterility is less in ubserou m omits with them abortion is less frequent and f results high

( ) In sterile m reed wome intrimu al tumors ntedom nat

(8) Prim rs t rilit (130 cases) 1 more frequent thin secondary (12 cases) primary 81 per cent secondary one ce t t the Amsterdam lin c

(o) In primary sterility the tumor increases with the age and duration of the marriage in secondary sterulty there is no fixed relation. On the average these patients come to the physician with tumors of the same size but at a vounger age. In unmarried myoma patients the tumor is larger the older the natient

(10) In early cessation of the sexual life fertility is independent of the size of the tumor which tends to show that it has developed after the cessation of sexual activity C. H. STRATZ

Alexandroff F A Treatment of Fibromyoma of the Uterus with Rontgen Rays (8 ha dlung der I bromyome de Ut rus mit Ronige trahkn)
Zi ch f Geb et h u G k 1913 xxviii 15 7
B) Zentribl f d ges Gynlk u Geburch d Grenzgeb

The author has used routgen rays in 15 cases of f bromyoma of the uterus. He reports 3 of the cases in which the effects were the most marked

The first case was a 47 year-old woman who for 10 years had had menses lasting 2 to 3 weeks. The diagnosis was multiple fibroma After irradiation there was a cessation of hamorrhage except for a ery sight menstrual discharge and the tumor decreased in size

The econd case a 40-year-old patient was troubled with pun in the abdomen and profuse menstruation The dagnosis was multiple fibro myoma After arrada tion for five or six months there was no more bleed ag The symptoms of the menopause decreased after scarification of the cervix and the tumor decreased in size

The third case was a 39 year old patient who had pain in the abdomen and a slight menstrual lischarge Examination showed myoma of the an terior wall and marked cedema of the cervit. After irradiation for a mouth and a half the cedema dis appe red and the tumor became firmer Menstrua tion ceased and the treatment wa interrupted on account of schere ymptoms of the menopause

In the first two cases the rays acted chiefly on the ova y producing obgomenorrheea in the first and amen 17hu. in the second in the third case they acted on the tumor itself with retrogression of the rdems and the tumor Absorption of the serous tra udate was manifested by intoxication of the organism - ymptoms of the menopause. In this retr gress on of the ordems from the effect on the blood vessels the author sees the chief factor in the decrease in the size of the tumor. The more cedematous and softer the tumor the surer the re-The effect of the rays on the tumor itself demands further explanation

McGlan J A The Heart In Fibroid Tumors of the Uterus. Surg Gyace & Obst 19 4 2vu By Surg Cynec & Ob t

The conclusions reached by the author are based on the study of 5 00 post mortem records in th Ph lad lphia General Hospital While dmitt g that fibroid tumors of the uterus are freq atl

associated with eardiac disease McGlinn denies the existence of the fibroid heart at a distinct entity The study I divided into two parts. In the first part ter cases of fibroad tumors of the aterus are tabulated They are considered from the stand points of race age clinical diagnosis position of the tumor size of the tumor heart lesions present and pathological cause of death. In the second series 112 cases of fibroid tumors of the uterus are contrasted with an equal number of cases of the same uses and races without fibroids and the heart

lessons present in both types compared
The author discusses the various theories which have been advanced to explain the relationship between fibroid tumors of the uterus and heart In considering the possibility of the existence of a fibroid heart he dismisses all theories except the following (1) A taxin produced during the growth of the tumor causes degenerative changes in the heart and blood vessels (2) fibroid tumors of the uterus are only a local feature of a general process He holds that none of the other theories ad noed will fit every case and that if these theories were true a constant heart lesion would be found present in all tumor cases and that in the largest tumors the most marked heart changes would be found. The study of the first series however does not bear out these content ons In the series he found as it times varieties of heart lesions one of which mitral sclerosis was not present in more than 45 of the cases If also found that the largest and most seriously diseased hearts were

found in the cases with the smallest tumors In the econd series of cases he shows that heart lesions are just as common 1 the non fibroid cases as in the fibroid ones. The following are the con

clusions submitted s From th eport a defin to entity of a fibroid heart cannot be sustained

2 If the abroad tumors of the uterus were the cause of all the heart les ons described in this study then every tumor regardless of it size and situa tion should be remo ed - a contention that the most radical would scare 1 agre to

3 Uterine myomita occurring in middle and advanced life are practically aims associated with selectic beart lesions. These lesions are a part of a general process and bear no r lation to

A Large tumors by a reasing the work of the heart and tumors causing pressure on the pelvic circulation may produc hypertrophy and secondary 3 Anzma from hamorrhag

infections and

certain degenerations of the turn may affect the heart secondarily using h ges uch as fatty degeneration brown at 1 h and loudy swelling 6 The majorit of case of fail d generation brown atroph) clouds swilling myocarditis etc. found in connection with fil road tumors I the interus are not caused by the tumo but by cond tions entirely foreign to the t m r

Aronig Rontgen Rays Radium and Mesothers um in the Treatment of Uterine Fibroids and Malignant Tumors, Am J Obst \\ \) 1014, hur 205 By S or Gree & Gu

The technique used in the Freiburg Clinic differe from that usually advocated in that the largest possible doses are used as routine from the beginning of treatment While at this choic it is not con sidered that every case requir a immense dosage yet it is impossible to tell in advance whether a mice case will be favorably influenced with small dosage and again small dosage in the beginning of treat ment very frequently causes an increase in the bleeding the clinic therefore has adopted the large dotage method both because it is more ram I in its effects and because it is free from the danger of increasing the bleeding at the beginning of treat ment a factor of great importance and the results from this technique have been entirely satisfac tory

Up until this time 350 myoma cases have been treated at the Freiburg Clinic by means of the rays and have not in a single instance failed to produce an amenorthors. An endeavor has been made to gauge the treatment in young individuals so as to bring the quantity of blood within the nor mal but the attempts have not been satisfactory since relapses are frequent unless absolute amenor rhoes is produced. The \ rays produce sterility along with the amenor hota so where this result is not desirable the & rays are not to be used. The clinic has abandoned the operative treatment of fibroids for the treatment by the rontgen rays except n those occasional cases where it appears that a my omectomy may leave a functionating uterus for a young \* ma Th argument is that the r nigen a young # ma rays are just as efficient in their action as the total ablation and is devoid of all danger to life, while an operation carries with it is operative mortality e en if it is small. The artificial menopause symp toms are in general not nearly so pronounced as after operation

According to the te hisque employed an average I s to 8 sittings at intervals of 18 days are necessar) to perfect a result so that a cure requires from 3 to 4 m aths time. The patient is given two extra treatments after the desired amenorthms is pro luced With perfected technique skin burns are absolutely avoided so that the treatment carnes

with it no pain or danger The action f rad um and mesotherium upon myomata is due to their y rays the other rays have to be filtered out and since the y rays const tute only about one per cent ( the ray output of these substan es the dosage necessary to produce results must be er) large The substances may be applied to the abdoms al surface of the tumor or capsules may be pl ce l in the vagina in the vicinity of the tumor or a capsule may be plac if within the uterine The intra uterine method is more ram i in ts result but associated with unpleasant by effects

The attempts to treat ovarian tumors with meso thorum and \ rays have not been successful

Three cases of hypertrophy of the prostate were treated at the clime in the ame manner. In two there h s been decrease in the size of the prostates to touch and some improvement of the bladder symptoms one case 1 still un ler treatment There was seen great decrease in size of goiters as the result of the act on of mesothorium

There were treated 254 cases of cancer at the climc with rontgen rays and radium this i cludes all cases some treated after operation for the preven tion of secon lary growths as well as those cases where no operation had been performed. Of 150 cases treated entirely without operation 140 were treated by the combined use of mesothorium and the rontgen rays while o cases were treated with

rontgen rays alone

Sixty four cases were treated for the prevention of secondary growth after operations for cancer of these 43 were treated almost exclusively with unfiltered rays while 21 cases were treated partly with filtered and partly with unfiltered rays \ hile 23 of the 43 cases undoubtedly lied of carcinoma from following the subsequent history of 20 of the 21 cases proof is shown that q are undoubtedly free of carcinoma While sufficient time has not elapsed to speak of them as definitely cured cases yet the result is so unusual that it will have to be cred ted to the treatment that recurrences are not so fre quent when filtered rays are used after operation

In arrig t opinio as to the results of their therape tie se fradio acti e substance in the 40 cases the clinic di ides the ases into ( ) those n which the cancer is him ted to the primary focus ( ) those cases in which the surrounding tissue has bee in aded and (3) those cases i which not only the neighbo ng tis is hiv been vaded but in whi h there ha also been metatases in dist t

organ

The hi e been able to ure no ase of meta tatic In thos cases where the disease has n vaded neighborn g tissue they also have been un able t produ e a cure though they have seen some rema table reprogressions and transitors or ition of growth but a frasthey ar able t 1 dge r newel a to ty of the dis ase occurs lat r Ih y h ve had c ses where n t only retrogressio of th growth n th p imary focus has occurred but also n the par m inum i d n th e ghbori g glands so that renem ould n lo ge be found du ing observ tion period f more than a year

In c se f the f t group where the can r still loc 1 d sc d h s ot ad anced beyo d the prim ry for the sort I cases and anly termed operate this has been hil to c use a complete fth a fa s an he con disappe a n zed hi t log illy ven aft leep in is n to the tis et ih are i cure lo gest observed in th ne of a la ga c noma of the abdom nal wall that he bee nide beereatto fo only two ١ ٥ N SPR ST II A S

G les A E.: A Plea for Early Operation in Cases of Uterine Fibroids Med Pr 11 & C c 1014 By Surg Gynec & Obst

Ciles advocates the early operation on fibroids because he believes more conservative operations may be performed such as myomectomy also if the diagnosis is in error the patient's condition may be bettered and perhaps a life saved if the tumor turns out to be malignant an operation regardless of the age of the patient if the symptoms warrant it

The author concludes that operations reheve patients from invalid sm and that waiting for the menopause is not the rational treatment as the symptoms do not then subside LUCYNE CARY

Mapes G. C. Infantile Menstruation Ped at at By Surg Gynec & Obst 9 4 XXV1 24

The author opens his paper with a discussion of the theories of menstrustion which in brief are these The uterine congestion theory of Hippocrates

the lunar theory of Aristotle the mechanical theory of Galen and the chemical or fermentative theory specified by the Hebraic law. The more recent theories are the nervous automatic control advances by Tait Raymond Robinson and Martin the in ternal secretion of the ovary theory as advanced by Gore and the theory that maturation of the granfian follicle induces ovarian congestion and thus reflexly a pelvic congestion results

The author believes that infantile menstruation owes its origin to precocious maturation of the gra than follicles Mapes says that this however seems fallacious as menstruation has been noted in m men in whom the ovaries have been congenitally absent and in women after both ovaries and tubes

hav been removed

Th following cases are cited

Seven lays after delivery the infant menstruat ed for 1 days This was repeated every 28 days and there was an unusual amount of milk in the infant s breasts

2 The menstruction began in a child 4 days after birth and was regular thereafter with milky

flut! cozing from the rupples

3 Achild 3 years old seen at autopsy had men struated every 3 weeks since birth In this case the overces showed agos of ancient and recent ovula

4 Menses began in this case at six months of age 5 In this case menstruation began at fourteen

The author cites several other cases that have about the sam history and says that several such cases have been observed in Louisville in recent years two of which have fallen under his own not ce

LUCE E CAR Cramer II Radical Operation for Prolaps

(Best 4. Red Laborer toon des P lap 4/)

I k f G, at 19 3 C 44

By Zentralbi i d ges G, at u G burich d Grenageb The author's work is based on 178 rad cal opera tions in 160 cases Warsham na per

associated with cardiac disease McClina demes the ers tence of the fibroid heart as a distinct entits The tudy a divided into two p rt. In the first part 131 cases of fibroad tumors of the uterus are tabulated They are con idered from the stand with of race age clinical diagnosis position of the tumor size of the tumor heart lesions present and nathological cause of death. In the sec nd. series its cases of fibroid tumors of the uterus are contrasted with an equal number of case of the same ag s and races without fil roids an I the heart h sons present in both types compared

The author d seusses the various theory a which have been advanced to explin the relation him between fibroul tumors of the uterus and heart becase In come i ring the possibility of th existence fa fire d heart he him say all theories e cept the following (x) I toxin product I during the growth of the tumor causes degenerated changes in the heart and blood sessels (2) Throut tumors of the uterus are only a local f iture of a general process. He h his that none of the other theories advince I will fit every use and that if these throngs were true a constant heart less n would be found pre-ent in all tumor cases and that in the largest tumors the most marked heart changes would be found. The study of the first series however loss not bear out these contentions In the series he found 43 h tin t 1 m ties of heart lesions one of which mittel sclerosis was not present in more than a cof the cars lie to found that the largest and most ser on it heered he et wer found in the ages with the mallest tumors

In the second wires of wish he we that he re lesions are just a ommon in the min throid cas as in the fibroid on a The following to the on cla 2009 Sul matted

r From this report a d int state f fi road heart cappot be ust t ed

heart secondarily

. If the fbroid tumors of the uterus cause of all the heart levon levenbed nith atouts then every tum r regardl s ot t use and situ tion should be remo 1 ont atton that the most ralical would anely gree ()

I terme myomata or urring muddle and ad anced he are practically the sou sated with scienotic heart feston these k ton are nd bes ne rel t n to part of a general prothe fibroid

4 Large sumors by ner 4 g the work of th heart an i tumors 1 2 Urt on the pals circulation may produce h parting he mil secondars

il latation of the heart 3 Inemia from ham rrh & of crops and certain degenerate is f the tumo my aff t the using bings such a fatts

legeneration from at ph nl loul welling 6 The majorn I am of late degeneration brown atrophy clouds will g me ocard to et found in connection with ill road tumors of the aterus are not caused by the num r but by condihons ent rely foreign to the tumo

Libnig Rhutgen Rays, Radium and Mesothorium in th Treatment of Uterine Fibroids and Malignant Tumors Am J Ob! A 1 1014. 1 12 205

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aft t ore ration becoming to the technique implosed an average of to haut ngs at intervals ! I lays are necessary to need et a result so that ure requires from 3 to 4 mo the time The patient a given two extra treatment after th d tred amenorthees is produced. With part i d technique sain burns are absolut is a order or in t the treatment rries

with it to put n or danger The a the of radium and mesothorium apon myomat is but to their y rivs the ther eas ha he nitered out and same the y rave const tute only about one per cent fithe ty output of these substant the longer its rit a produce results must be a rit ree. The ubstances may be applied to the abd m nal urf ce I the tumor or capsules may be plu it the gena a the vic a ty of the tumor a cape is ma in placed with a the utenne The intra ut rine method is more rapid a

t result I to used ated with a pleasant by effect

permeal body (10) widening of the permeum and

The operative procedure 1 as follows Curcitage

amputation of the cert; and anterior colporrhaphy

In the anterior colorarhaphy after the mutous flap is semoned and the cervice vagion evental cell ular ti sue is exposed too antefleving sutures are passed into the cervical end of the wound transfix ing the mutous membrane edges. These pass up and is often supera signal segment of the cervar and arch to the supera signal segment of the cervar and the supera signal segment of the cervar and the supera signal segment of the cervar and the supera signal segment of the supera signal segment of the supera signal segment is supera signal segment to the passes of the supera signal segment is closed so as to admit the thumb only the posterior wall being closed with the Lambers stitch. The pera naturn is filled in by the segmental stitching in a natural side of the segmental stitching in the segmental

The author has carried out the above procedure twenty times without a mortality or a recurrence ELICETE CARY

The auth r based his study on 143 patients of the Leden gynecological clinic. The frequency was 6 6 per cent. In consistents of the medical side there were; per cent of retrolle ion and in 931 parturent women there were also 5 per cent retroflections from which he draws the conclusion that birth has no effect in producing retroflections.

Uter a thorough discussion of the literat re the author comes t the conclusion that the uterus is held in anteflexion only by the tonus of its tissues Retroflexion is produced by (1) Loss of tone from asthema miantihsm tuberculosis aniem chloro is exhausting diseases sensity and post mortem relayati n (2) pressure on the anterior wall from rease i ntra abdomin i pressure r and (3) traction in the posterior wall by tumors or adhest no Th first of these causes is the most frequent and most moortant. Congenital retro fl vi n is very ra Retrolle ion i not influ nced bs del ery C II STRAT

Mendes De Leon M. A. Alexander Adams Opera II n /2 Mexand dams Opera ) M. s. h f Geb t k G k g 3 xxm 536 B Ze t albi f d ges G nak. C burish d (renzeeb

In retroflex n of the uteru of the post to 1 corrected an unport oment in the subjects n of objects. ) imptour brained n the majority of cases. This is esp, milly turn of mobile retroflexion in which there in the unbundered freedom of motion of the whole organ as well as between the upper and low r part of it. Pessaries with a week offenserish used to correct the position cannot b

used in argins with small cervixes in cases where the pel ic musculature is impured or if the mucous membrane is inflamed and sensitive at any rate after they are removed the condition generally recurs

No operation is justified that does not preserve the physiological mobility of the uterus. This condit on is best fulfilled by shortening the round I gaments by an ilevander Adams operation. After the operation a pressry generally, Ifodges is wom for 4 or 5 weeks and the patient can get up on the tenth or twelfth day. If there is also an inguinal hermis the hermal six is freed from the ligament and remost obl. Bassuns method.

Among 5 000 patients since 1002 the author has had 1,360 cases of retroflexion of the uterus Two hundred and sixty of these were immovable of the remaining 1 00 733 were treated non surgically 235 replaced by pessaries, and 132 operated on by Alexander Adams method. There were no deaths once the bladder was injured and sutured without any bad results once there was pneumonia the results were generally sats factory. He examined 56 of the patients later and found three recurrences which the patients were not aware of In one of these patients there had been bilateral inguinal herms and evere enteroptos: He had uniformly favorable reports of most of the other patients. either from themselves or through their physicians f the patients - 4 primiparae and 11 multiparae - became pregnant without a recurrence

me pregnant without a recurrence

Signart W. Avolding Perstonutis in the Operati e Treatment of Rupture of the Uterus and Perforating Wounds of the Uterus (De \u00edus schaltung der P mont sgefahr bet d'r operat \u00ed Bh dl gdt Uteru ruptur und de perfonceen d Uter s'en tri gran) A th f Gyndk 1913 c

d Uter s erl tz egen) A ch f Gyndk 1913 c

96
B) Zintralbl f d ges Gynkk Geburish s d Grenzgeb

The rupture of the uterus is the most serious and

dangerou complication of labor accompanying it there are two dangers that threaten life harmon rhage and perstonitis To prevent these two con tingen es is the aim of medical treatment but of the two penton its a by far more difficult to avoid Ruptur of the uteru should be treated in the ho pital and M mburg's method will be found a valuable a d in transporting patient. If the child s in the abdominal c its del ers by the natural not lways necessary as ble ding is often light on account f contractio of the uterus If there re s gn of se ere internal hemorrh ge the child hould be mmediately ext acted through the rupt re and M mburg tube applied afterward If the child has not escaped from the uterus or only part ally so d live; shald be performed by the natural rout fampon and dramage ar unsafe m thods of st pping the hemorrhage

oper tion being the only safe m thod in incom

plet rupture without severe laceration of the tissues

th may be aginal Suture I the rupture is

formed o times the interposition of the uterus was accomplished through the abdomen Cramer prefers the twiersed Ti cision

As the interposed uterus if not covered with mucou membrane may pull out the antaror agual will a funnel shape Cramer like Schula recommends that it be completely covered over with vagin I murous membrane. The uterus is always fred with a sense of interrupted sutures from the fundus to the cervic and the vaginal tamponer a fatter the operation. The abdomaticativity accurredly closed by suturing the vessco-uterun fool to the noveleno respectation will be sufficient to the processor of the proces

In miny cises lightion of the bladder is necessify in one case in which antenor and posterior color rhaphs had been performed 6 years before the bladder ruptured the edges could not be brought together and witured on account of the sear after the removal of the permanent catheter on the twelfth day the bladder wa perfectly continent. If there as incominence of unnea as well as prolapse in addition to replacing the bl d for the author begates the need. of the blidder and unethras the cause. I the incomi time he bladder is a tening of the unrefine and bladder from their support is

tissues

In order to narrow the sault of the sagina which is frequently very fleet I he recommend the resection from the reversed T increasing of an equalateral triangle with its apec at the urethral prominence and its biss, at It transverse inc. on in the cervix. In this way the I gaments of the uterus can be resched and testiment by tran ere sutures.

In the author's opinion explorationy curretage should preced the operation of prolaper life prefers extraon of the innecess membrane to customation. In myoms he uses the wedge must on lif necessary the cervar is amput ted aft r the interposition and the closure of the authoric colpor rhaphy wound. The crura of the lexator are untied in the median direction by 4 to 6 buried sutures. Two of the cases ded one was complicated by a ruptured tubal pregnancy and led of peritoria. The second on the lexator of the cases ded one was complicated by a ruptured with pregnancy and led of peritoria. The first the length of the cases who had to be eliptorationally performed afterwards one on the fully recovered arecurrences. Runng 2.9 per not recurrences and repenneent recoveries. Publish

Krauze L Operative Treatment of Prolapse of th Pel is (7 r operat on B h ndlung d Mast darm orf lies) Pregi k k 9 g ux v6 By Zentralhi i d ges Ch Grenzgeb

The author gives a review of the present view as to the ctology of the condition and a criticism of the did rent methods of operation. Resection 1 a severe operation with 11 per cet a mortality. The operation scar may give rive secondarily either to stenous or because I rupture to a recurrence Colopesy through the anterior abd in sal sull gives on per cent of recurrences and may lead to the

formation of dangerous bands of adhesion Operations for the repair of the pelvic floor have not been very successful

The author prefers Rehn Delorme method of incising the mucous membrane of the prolansed section in a evlindrical form and uniting the edges of the defect by a series of sutures. If ha operated on o cases by the method and gives the case histories The stytre hamorrhage which would other wire take place a avoided by the elastic lighton f the prolapse at the anus. The oldest patient was 69 the s ungest 23 Most of the cases were oper atted on under local angesthesia the results were good and there was recurrence in only one case after a year In two cases in clderly women a slight prolapse after a few weeks was remedied by a plastic operation on the floor of the pelvi — In simple mid cases the method is excellent and at c few ment rences In severe cases it may be combined ith a plastic operation on the floor of the pelvis the second operation should be performed a few weeks after tile first

Harris, S. II Ventrofixation of the Uterus with a Report of I'wo Cauca of Dystocia 4 n/1 VI Gr 19 4 xx 61 By Surg Gynec & Obst

The author gives the teachings of vanous author it ea on this subject, and p noris two cases from it expensence. The first pain at aged 33 III part w? seen at term 'v nir' f ution had res lived from an operation two years before. The he months first this she had been delivered f a dead child feet first afte a liff-cult I bor Tise a too foun I a houlder presentation the cervaried as they up and fully dilate! The child was delivered by nothic vers in the production of the contraction o

The second patient a priminara aged in had C fliam operation followed by some infection which resulted in a entrofisation. There as a shoulder presentation and a partial placeata pravial Peternal version was performed and a 1g brought down. The hild was lost but the mother midd. a good recover. C. H. D. was

Mamourian M. Th. Rad cal Cure of Frocid atla Uteri in Fiderly Women. B t. W. J. 9.4 367 B S rg. Gynec & Obst.

The author believes that a radical cure for proculentia in elderly women ca be d nx e tirch by the vagnal route and with this in mind he has devised an operation which he has been using with complete sucress

To o rect the condition of prolypus the folloging conditions must be employed with () Reduction of the with a ght [th uterus proper (2) removal of vessa e cert c 1 ubst nec (2) antefecto of the uterus (4) narrowing of the vagual card (3) lengthem g of the posteror vagual wall (6) resto at on of the paralleli m of the vagn to the coupgast of the pel s. (7) rest ration of the continuity of the cellular thaue around the new gma (8) repair of the pel is (4) pringing (6) repair of the

perment body (10) widening of the permeum and issening the size of the pudends orifice

The operative procedure is as follows Curettage amoutation of the cervix and anterior colporrhaphy

followed by permeorrhaphy

In the anterior colporthaphy after the mucous flap is removed and the cervico agino vesical cell ular tissue is exposed two anteflexing sutures are passed into the cervical end of the wound transfix ing the mucous membrane edges. These pass up wards to the supravaginal segment of the cervix an i out through the cellular tissue under the bladder This procedure anteffexes the uterus the para metric statches are then taken and the mucous membrane closed Next the posterior colpur thaphy is done in which the vaginal outlet is closed so as to admit the thumb only the posterior wall being closed with the Lambert stitch The peri neum is filled in by the segmental statching in terrupted sutures being used. The skin is closed by Michel chps

The author has carried out the above procedure tw to times without a mortality or a recurrence ELCENE CARY

Van Teutem E A The Causes of Retroflexion (Die Ursachen der Retroflexion) Vederl Und h l k nr nens 19 3 u 549 B, Zentralbi f d ges Gynnk Ceburish s d Grenzgeb

The author based hi study on 1 438 patients of th Leiden paceological cl nor. The frequency was 16 6 per cent. In 200 patients on the medical side there were 5 3 per cent of retrollerons and in 90 parturent women there were also 5 5 per cent retro fie ions from which he draws the conclusion that birth has no effect in producing retroflexion.

After a thorough discussion of the literature the sultor comes to the conclusion that the uterus is held in antiefletion only by the tonus of its tissues. Retrofletion is produced by (I) Loss of to a from sathenia infantisian tuberculosis anarmis, chi ro asthenia infantisian tuberculosis anarmis, chi ro asthenia infantisian tuberculosis anarmis, chi ro attender and infantisian tuberculosis anatomis, chi and tuberculosis in antiemporal pressure not tentantion or increase of initia abdominal pressure and (s) it action on the posterior wall by tumors or adhesions. The first of these causes is the most important C agent all retrofletion is not influenced in an avery rar Retroflexion is not influenced C II S7 at 1

Mendes De Leon M. A. Alexande Adams Operation (/ur M. and Ad ms Operation) Mon t h f Geb et h Gy h gy uxwu 536 By Zentralibi f d grs (vinak u C burt h d (rengreb

In retrolle ion of the uters if the point in corrected an impro m at n it subject e nd objective symptom: bitane i in the majority of cases. This is e persably true of mobile retroflexion in which there must be unfind red freedom of motion of the whole organ sized is to tween the upper and i w r part of it. Pessanes which were former! used it correct the position cannot be used in virgins with small cervives in cases where the pelvic musculature is injured or if the mucous membrane is inflamed and sensitive at any rate after they are removed the condition generally recurs

No operation is justified that does not preserve the physological mobility of the uterus. This condition is best fulfilled by shortening the round ligaments by an Ilevander Adams operation. After the operation a pessary generally Hodges. It warn for 4 or 5 weeks and the patient can get up on the tenth of twelfth day. If there is abo an inguinal herma the hermal sax is freed from the higament and removed by Bassmis methods.

Among 5 000 patients since 1002 the author has had I 100 cases of retroflexion of the uterus I wo hundred and sixty of these were immovable of the remaining 1 100 733 were treated non surgically 235 replaced by pessames, and 132 operated on by Mexander Adams method There were no deaths once the bladder was mured and sutured without any bad results once there was pneumonia the results were generally sat factory. He examined so of the patients later and found three recurrences which the put ents were not aware of In one of these putients there had been bilateral inguinal herma and severe enteroptosis. He had uniformly favorable reports of most of the other patients either from themsel es or through the r physicians 5 of the patients - 4 primipara and 11 multipara - became pregnant without a recurrence

WOLFF.

Signart W Avoiding Perstonates in the Operative Treatment of Rupture of the Uterus (Die A s schaltung der Perston i gefahr bei der operativa n Beh dl g de Ut zu roptur und der perstonere den Uter s erletz ngen) A ch f Gyndh 9 3 c

too By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

The rupture of the uterus is the most serious and dangerous complication of labor accompanying it there are two dangers that threaten life harmon rhage and perstonitis. To prevent these two con tingencies is the aim of medical treatment but of the two perston tis is by far more difficult to avoid Rupture f the uteru should be treated in the hosp tal and M mburg method will be found a sal abl and in transporting patients. If the child is in the abdom nal c vity delivery by the natural mute is not always necessary as bleeding is fren sight on account of contraction of the uterus there are signs I severe internal harmo rh ge the hild should be immediately extracted through the rupture and Momburg's tube applied afterward If the child has not escaped from the uterus or only partially so deliver; should be performed by the natural route Tampon and drainage are unsafe methods of stopping the hamorrhage oper tion being the only safe method in incom plete rupture without severe laceration of the tissues this may be vage al Suture of the rupture is

seldom succession therefore vagnal total exter pation is to be preferred. If there are harmatoma in the parametrium laparotomy is to be preferred even in incomplete rupture the injured parame trium must be removed and the clots leaned out

In complete rupture hiparotomy is indicated Suture of the wound hould be undertaken only if the luceration of the tissues is slight otherwise total exterpation is to be preferred. The surest means of avoiding infection consi to in absolutely closing off the privic wounds from the abdominal cavity Therefore in addition to the primary closing suture I the perstoneum a second continuous suture imilar to Lembert a scrous auture should be used Sigwart describes twelve cases of rupture that were treated in this way three of the women hed of loss of blood the remaining nine recovered without any severe perstancel symptoms Signart then discusses penetrating wound of the uterus Here too he recommen is I parotomy with the a m of cleansing the abdominal cavity but in these cases the uterus does not need to be remo ed Careful covering o er of the wound with nen toneum is important and the author recommends that the site of perforation be left outside the peri toscum C CC ISBLEG

Breitstein L I Runture of the Uterus Following Czesareun Section J im M As 19 4 lm 680 R 5 ng Cyner & Obel

In case is interest ng from the fact that the patient who was 17 t rs of age had a normal nel ; and casarran section was done be ause of a 1 rge hamatoms, which blocked the pel ic can'tl. The third 1 ; I llowing operation the temperature rose to 358 L and on the tifth day there was a pro fuse purulent ducharge from the vagina abdominal at teh absensed loped but the tempera ture gradually f li to normal on the l pricenth day About two v ars later he becam presma t and wa ich ered spontageou i through the aginal toute -th puerper um w not omplicat l The third and last pregnancy or urred bout c ghteen month later

In th eighth month of the lattr gnan , he was admitted t the hospital bec use he compl t d of irregul r p n not tro g n hiracter m n was that ndid a d he looked Her abdo f he w s 1 6 ( p ise 100 ami term hr t mperatur w respiration 24 no n use or shock was prese t The abdomin I examination was not satisfact ry. The positio ( th fortus could not be mad out nor ould in fer I h art tones be heard Laf u sfit u til the day before the patient sentr n int the bost tal h r bowel moved feer h had i n n th hospit i tw at four hours and she f it mor omfort I ke sat up in a chair and when he wilk I about the room he gut was peculiar he would bend over and hold the lower part of th abdom n with both hands

A careful exam nation in he t this time reveal d

the occupito anterior lat us The head was freely mountale but no fortal heart tones could be heard The vagina was roomy and free from blood the currical canal was not obliterated the cervix was hard an I thick. On introducing the finger into the cervix and lower utenne segment it was found empty The pitient was immediately operated upon

On operation the intact bag of water containing the foctus was seen free in the abdominal cavity The membranes were ruptured and the dead bal deli red The niacenta was found ly ng on the external anterior surface of the uterus The uterus was furly well contracted and the rupture was seen to be confined to the old scar from the casarian section There was no free blood in the abdominal cavity but a black clot was removed from the left broad ligament A supra- ginal hysterectomy was performed leaving the left ovary behad The abdomen was closed with a drain in its loner portion The post-operative history was uneventful

After I riefly reviewing the case histories from the intrature the author comes to the follo ung conclusions

r A casareanized noman who gives a history of an infection with purulent discharge from the vagina in the puerpurium is a good candidate for rupture of the uterus in one of her subsequent preg KINCICS

2 The more fact the ta casareamzed woman has delivered herself anontaneously a no reason for believing that she is free from the danger of rupture of the uterus in her future pregnancies

4 Rupture generally takes place in a scar result ing from improper wound beating in the presence of infection

4 The molantation of the placent on the site of the war may so weaken the utenne tissue that it may rus ture under the train of labor

Cesaman section should be I m ted to those cases in which I is strictly necessary

6 A carer anized noman should be in the hospit i during the last month of her subsequent pregnancies so as to be under constant medical LDR SED L COR ELL uners to

Shesky O Treatment of Complet Ruptur of the Uterus (Best ag 'r Theripie de kampletten Licrusrupi r) II i å f Geb ei k u Gyndk

By /entralled f d gra Gynak Geburten d Grenzgeb

The auth report four cases of runture of the uteru which he has beened t the Innsbruck Chine mee 880 The first two cases nere treated co serv to ely There were no prodromal symptoms I the rupture D is ty was accomplished by the natural oute there was no hemorrhage and neither the focus no placenta a re extruded into the abdom all c vity in one case the peritoneum The third and fourth c see were operated on uc

cessfully. The uterus was empired through the rupture though in these case neather the factus nor placents was un the abdom nal cavity and there was no serous degree of benorating. In the lourth case there were no seens of distension the rupture could be diagnosed only by the sudden appearance of pain diff culty in breath ag and the free mob lity of the factal band

From his own cases and a study of the literature hebe Ly concludes that in every complete rupture of the uterus immediate operation is indicated Tamponing is only to be regarded as a temporary means of stopping hamotrhage or to be used in cases where operation for some reason cannot be The choice of the operation must performed depend on the case. He warms against simply suturing the rupture on account of technical diffi culties and danger of infection and recurrence Whether total extirpation or supravaginal amputa tion is the operation of choice will depend on the extent and location of the rupture but both should be performed by the abdominal route The question of drau age will depend on the operator but Nebesky recommends dramage of the perstoneum into the true pelvis. Only by immediate operation in all cases can the present mortality of 30 per cent be reduced

### ADNEXAL AND PERIUTERINE CONDITIONS

Ekler R O arlan and Parovarian Tumors (bb Os ral und P ro nalt more) If a tsch f Geb th G, at 93 xc 3

By Zentralbi f d ges (nal. Gebursh s d Grenzgeb

A collection of the material from the Venna Rothich ld Hopstalf of the pat 6 years until a 217 owanan tumors 4 of which were malignant. There is nothing part cularly in a in their symptomatolog in didagnosis. There were installed diagnosis of the collection of the lines of the mesentery 2 of the toma h and 1 of th pancre. Thindex 1 of the member of the more every or man tumo because, of the toma h and 1 of th pancre. The motion is to remove every or man tumo because, of the toma h and to the pancre. The motion is the most every or man tumo because, of the motion of the collection of the motion of the collection of the motion of the collection of the motion of the second of the collection of the collection

times
The peration I choice in benigh tumors i variotomy i malignat ones the adic oper ton generity with ut draininge in benight six the morthly was 12 per ent in milign to a title primary milight in 50 per ct. Of the 211 tumors i wire intallity in 60 per ct. Of the 211 tumors i wire intallity moved tors in fith pedicle—th most extrem so to forcom was pedicle—th most extrem so to forcom was support to make the control of t

Djedoff W P. Bilateral Ovarian Cyst Compileat
ed by a Right's ded Extra Uterine Frejannry
Operation Recovery the Fertilization of the
Orum in the Gradin To Follice of the Diseased
Owary Causes of Extra Uterine Pregnancy
(Doppel et as Elements, 1944 me 1 mylamet durch
can rechirement of the total control of the control o

The author thinks that disease of the ovary from which the impregnated orum comes 1 the chief factor in the origin of extra utenne pregnancy Probably the ovum is impregnated in the grantian follicle which does not open in enough to let the impregnated orum out but afterward the follicle cannot resist the pressure of the growing ovum and ruptures further so that the impregnated egg gets into the ampulla of the tube but cannot pass through the lumen and in this way extra uterine pregnancy arises. As an evidence of this the author cites the comparative frequency of pregnancy in the ampulla and the occurrence of ovarian pregnan As an illustration he cites a case that he operat ed on of pregnancy in the ampulla of the tube with exists of both ovaries

Barr A S A Case of Right Inguinal Hernia of Overs and Tube J Am If As 2014 I u 45 By Surg Gy ee & Ol t

The autho reports a case of a gnd 12 years of age who had been afflicted with a bernam for some y urs and had worn a truss. Freept for the truss she hd not been bothered until two days before pe att n while the truse was off she coughed and a swelling appeared in the herma. A operation the sac was found to contain the right ovary and tube with no bowel or omentum. The ovary and tube were replaced in the abdomen and the wound closed in layers as usual. Evaluate Cox ext.

Eustace A B and M Vesly R.W. Ca e of Strangulated Tubo-Orarian Hernia in an Infant J low M 1 9 4 77 B) S rg (yner & Obst

Vite a refer nce to Henneck s compilation of 80 c ses of undoubled tubo ovarian herma including all those found in English and foreign interature the fact is noted that 35 of these cases occurred in infants under one ) car of age all were inguinal mostly irreducible and more or less strangulated.

De case of a colored infant of mouths old is reported. The mother could not reduce a previously reducible herms, with did been present ance brit a de which had descripted to the state of the state of

After exclusion of the mass Andrews imburcation was used and skin sutured without drainage. Re toteld has beeching confirmed the excellent has used and som and animatic amount dispute his toteld has areacutin countinue in exercisery auth integring strangulations. Evor x 1 0,7 entr brognosia optaning in tmpo oranau as courtagi

Frankel 31 Diasolution of Parametritic Adha-gons by Roinger Rays (Louwing parametritus) and for changes durch Roingmatchies) Zer I will form 10 3 ENTY 131 By Zentrubi ( d ge Gyn ), y Geburch 2 d Groupeb Dissolution of Parametritic Adhe-

In 75 per cent of all cases where there had been In 52 her cent of an cuses since there and occu-

somewors or the genus organ a lawther bonnt ten-bad improved or entirely disappeared after ronken treatment. Furnly fixed uten became morable treatment rimity need uten occause mayeause their bands in the parametrium pouch could no prominent and bands in Dongka pouch could no prominent and bands in Douglas pouch could be longer be felt when placed under tension. In one souker me terr when bracer monet reusion is out a firm) agnerent overall type necessite moves. He explains this retrogression of adhesions

ante under routgen treatment as being partly mechanical under rougen creatment as seing partry mechanical the mi omata as they decrease in use Josephia, the adhesions by traction. In other cases it must be activesions by traction in other cases it must be adhesions admitted that there is a reduction of the adhesions by the direct action of the rontgen rays, to the contex action of the runged tays and peritoneal particularly true in adherent uten and peritoneal particularly true in adherent uters and personnear tuberculous and in some cases the retrogression tuberculosis and in some cases time retrogree

EXTERNAL GENITALIA

huster H The So-Called Cysts of the Yoglan Muster H The So-Called Cress of the voginal Course, T. Ematins der Sognan tre Str. 6a (Burse, T. Ematins der Sognan tre Str. 6a (Burse, T. Ematins der Sognan vog al. 915 bzr. 6a (Burse) (Burse) (Beberrah d. Greeuge) (Burse) (Burse)

In a case of saponal cyst in a 36 year-old woman In a case of vagual cyst in a at year-old woman, the cyst the size of a prove cyst by no the posterior was a six of the cyst the size of a prove cyst by meaning the cyst of t Asgual and under the mucous membrane in the retrovagnal estimate the Close examination showed the state and tax arrill carries the wall consisted on a state of the state of t one large and two smru cavilies the wan considered of a double layer of non strated muscle one long. of a double layer of non strated muscle one long, tradeal and one circular and an epublish layer without allows the extra layer and the state of the Scours down The anten or the conclusion of the conclusion that it originated from the \* liftin duct \* which had not only penalted but developed union a structure not only penalted but developed union a structure and the structure with secondary cycle.

dilatation

Leren G Leiomyonna of the Urethra-veginal (Leiomyonna sept. urchiro. g is) (Leiomyonna sept. urchir The Patient was a 49 year-old nearly smill para-whose last child had been born 9 years before whose last child had been born 9 years before whose has child had been born 9 years before 9 months a tumor had been developing between For q months a tumor had been developing between the labas mapors. It as a large as a mandami to labas mapors. It is a large as a mandami label labas connection with label labas connection with label labas connection with the nterms or other organs. It was no poulated

and was easily removed followed by the fateat and age easily tempoled 10000000 to pe wane ab of throng counterive them with numerous epitics throng counterive them with numerous epitics. forous connective tessue sept; penetrated the tumor and between them a re bundles of noninmor and between them a re bundles of non strated muscle fibers there was no gland formation

Apout 100 anch famous have pecu tehouted nour 300 such runnes have been reported of the the outcusses the reasons was appearing of the vagina generasy appear in the anterior will store modern authors accept the possibility of such tumors originating from a lifear remnants. He tumors originating from a iman remnants sie argues with Raimondi the possibil ty of fibromata

argues with Kaumondi the possibility of fibronata of the urethra developing in the vagina discurves the diagnostic was and concludes that in case was the diagnostic was and concludes that in case was a demoid tuner original og from \fuller s duct

S nelair I F In estitutions in ini oraginitis
Arck Ped tru: 914 1 29 2 29 Surg Gyper & Obst

The annihability of bacteriological e annianoss of smears and the molead as but characteristic on someone and the manester good characteristic tentions of val or signifies to nearly periods of latency sed the author to seek for unprovided the factor of a someone are substantially related to the second of a someone are substantially related to the second of a someone are substantially related to the second of a someone are substantially related to the second of a someone are substantially related to the second of satency set the author to seek nor unproved methods of 145mal emination in children Tollon as the suggestions of Leopold and Rubin the details.

Suggestions of Leopold and Rubin the details the best of the details were an arrest to the section of suggestions or accipions and reads in the routine lighted female urethroscope and used in the routine agained semant areconscope was used in the results

examination of eighty three mants and the results tabulated in two groups (1) positive cases (2) issuniated in two groups (1) positive cases (1) the highly suspicious cases of the highly suspicious cases and the chief of the conditions of the cervice and the chief of the conditions of the cervice and the chief of the conditions of the cervice and the chief of the chief of

MENUE AND LESS CHIME I CONTINUOS OF THE CENTE SEL region were necessaring a my encorcopical impects In par one i the reboired cases in spicy smears

Here positively gonortheral at some time during the were homitized anounters of some time during the ances of the val & course or the disease were the muscophes mounts mercial in all others i this group eners were rebenevirage ports by personal supplies and all others are reall of the control of the cont gonorthurs the endoscopical spheatraces were spain

A third table in the report E es th results of the Complement freshon I st which was bouttied in 20 normal a but one case per cent of the ten c see the examined from group a proved regain in area selected from the substitution of these in estigations unlimited to the province of the substitution of the subs comparement gration t st which was further most valuable and

a cause of briefland upperson sees in the dr gross of briefland upperson sees Cuntan D II cr

Senith G G To Treatment of Connections
Withwaresignitia with Further meditarions
with Yallow I the Connection of the Disease Ass
well to the control of the Disease Ass
well to the control of the Disease Ass
well to the control of the Connection o f a practicable method of treat

ine d action is practicable method of treat ment of specific unlovagamins in hitle grids to gether with a discussion (the question a to the

real cure of this affection and its relation to the complement fivation test comprise the substance of this article. The heralded efficacy of gonococcus vaccine in children is much doubted as a dependable therapy.

The method employed by the author consists in a preliminary irrigation of the vaginal parits with a solution of either sterile water 2 per cent borne and sods bicarbo ate a teaspoonfel to a quart which is especially soothing or potassium perman ganate 1 to 8 coo, especially when there is a tendency to chronicity. If the inflammation is very acute the

local treatment is deferred a few days. The child is placed on a table back down inpaelevated and the solution (slightly warmed) allowed to run into the aug. a through a soft mibber Prench 
catheter size 13 or 4 which has been well labricated 
and inserted carefully through the hymen Imme 
dutely following impation one or two diactims of a 
siter air usually argy rol so per cent are spectral 
through the catheter with hand a lager at loss 
approximation for fifteen munites. In the more 
chronic cases the vaginal parts are gently snabbed 
with incurred or founder or premise solution.

thritis which is less often a complication than in the

adult is treated by daily instillation of 1 or 2 ccm of 5 per cent protargol

The treatment game preferably twice daily should cover at least a month but the patient should be seen at intervals thereafter. At least three months should elipse after cessation of the discharge before the case can be pronounced curred that the same patient is a long qui exence are due either to re infection often from the same source or are non specific and nan-from manituhation extension from dermatitis or affections from other organisms for which gonorrheea le en predisposition. Long and persist at treatment will i sure total destruction of gunococci the gr t majoury of cases notwith a company of gunococci the gr t majoury of cases notwith a company of gunococci and present at the cases of much suthernize as Edith Spating who reports or ensec in 22 out of 5 cases.

Discuss g the omplement fixation test aw ally posture blood is said 1 be very often present when there has been neither chinical nor microscopical evidence of affections for a long period. His hypothe said in the test a slight tendency if genoecoccus and ten to combo ewith authode of due to allied and the combo ewith authode of due to allied the combo ewith authode of due to allied the combo ewith authode of due to allied the combo ewith authority of the combo ewith authority

Tweedy E II Lacerations of the Perineum and Their Treatment West Pre & Crc 0 4 Ct 95 By Surg Gync & Obst

This s bject has received but scant attention of late years a d the general belief is that the last word has been said concerning it \text{\text{Net even to-day}} there exists \text{\text{\text{with the less}}} is stifference of opinion as regards the det is of treatment. It was formerly held

that lacerations of the penneum occurred as a mere splitting through the median raphé and their importance was gauged by their length. The old classification of three degrees of laceration is still reproduced in textbooks and remains a dogma which has long since outlived its meaning

The classical symptoms associated with partial rupture of the permeum are not dependent on the e tent of the median tupture but rather on the seventy of the lesson in the levator am muscles The penneum may rupture in one of three ways (1) The rupture might occur through its center (2) One or both lateral supports might give way (3) These lateral supports without rupture might be dragged from their attachments. The last is the common way The muscle fibers are seldom snapped asunder in the majority of cases they are torn from their insertion in the perineum. Such a catas trophe leaves the skin and superficial fascia intact It is the rule rather than the exception to see vigorous and misdirected efforts made to support the permeum at a period long after its tearing has actually occurred. The intimate connection be tween the muscle and mucous membrane causes both structures to give way together and such terring is almost invariably followed by a slight flow of blood It should never be mustaken for the show retraction of the muscles can be felt by placing a finge in the vulva during a pain. The thinly stretched out penneal skin rarely escapes uninjured from the subsequent processes of labor

The appearance of the inceration and the best method of examining it is discussed. In the repair the author states that the most perfect anatomical reunion will not occu unless the upper and lower surfaces can be united throughout their wides extent and that any closure of the signal mucous membrane preluminary to deep surfaces, using the most discussion of the present approximation of important muscle bundles. The employment of separate catget autures for the mucous membrane; not ad vised because of the hability of suture mection. Furthermore the muscle-fibers which he to the outer borders of these mucous membrane; rents are not placed in a position anatomically correct when

instead to the sade of the mucous membrane tongue instead to the sade of the mucous membrane tongue It is the authors existen to suture the permitimmediately after the cord is cut and before the infigure semployed for exploring the wound have been withdrawn. If stout unchromocized catgut is employed the patient need never, how she has been torn as she as still sufficiently under the ansesthetic to be uncouscous. The author uses a large needle 3 amende bedier. A long author is said with early of the control of the same to the same of the control of the control of the same of the control of the control of the same of the control of the control of the control of the same of the control of the co

After exci ion of the mass Andrews imbrication was used and skin autured without drainage. Recovery was unevential confirming the excellent prognosis obtaining in tubo-ovarian as contrasted with intestinal strangulations Ergevi. J O'Vent.

Frankel M Dissolution of Parametritic Adhealous by Rointgen Rays (Lösung parametritusche V trachau gen durch Rontgenstrablen) Z träll f G. få to 3 xxxvi 1510

By Zentralbl i d ge Gynàk Ceburish a d Cren geb

In 75 per cent of all cases where there had been adhesions of the genital organ - Fraenkel found they had improved or entirely disappeared after runtgen treatment Turnly fixed uten became movable thick bands in the parametrium softer and less prominent, and bands in Douglas pouch could no longer be felt when placed under tension. In one case a firmly adherent ovarian cast became mov able lie explains the retrogression of adhe ions under routg is treatment as being partly mechanical the myomata as they decrease in size loosening the adhesion by traction. In other cases it mu t be admitted that there is a reduction of the adhesions by the direct action of the rontgen rays. The was particul rly true in adherent uters and perstoneal tuberculous and in some cases the retrogression of the adhesions was confirmed on laparotomy TRANZ CORN

### EXTERNAL GENITALIA

Küster II The So-Called Cysts of the Vagina (Bestrug z Lenntaus der sogenvanten Scheiden eist n) Zirek f G bu ich Gandh 9 3 itzz 612 By Zentralbi f d ges Gynák u Geb rish d Grenzgeb

In a case of agent) cost in a 26 year-old woman the cost the size of a good egg lay in the posterior vaginal ault under the mucous membrane in the rectovaginal septum. Close examination showed one large and two small ca thes the wall const ted of a double layer of non structed muscle one long. tudinal and one ci cular and an epithelial layer nithout glands the nall was 3 to 4 mm thick The situ tion of the cost under the aginal wall as well as the structure of the tissue pointed to a con genital origin. The author came to the conclusion that it originated from the wolfban duct which had not only persisted but developed into a structure similar to the as deferens with secondary cyclic RECEIPTERS S dilatation

Lerda, G Leiomyoma of the Urethro-Laganal Septum (Leiomyoma sept arethro-ag alia) Zirch f G barish a G, dt to 3 km ali By Zentralbi f d grs Gpukk Gebort h d Grenageb

The patient was a 49 year-old healthy multipara whose last child had been born 9 years before For 9 months a tumor had been developing between the labra majora. It was as large as a mandarun looked like a cystoc le and had no connection w th the uterus or other organs. It wa encapsulated

and was easily removed followed by the patient a recovery in 8 days It was found to be made up of fibrous connective tresue with numerous elastic Connective tissue septa penetrated the tumor and between them were bundles of non structed muscle fibers there was no gland formation thout 260 such tumors have been reported

He discusses the reasons why fibromata of the vaging generally appear in the anterior wall blost modern authors accept the possibility of such tumors originating from wolfing remne is He argues with Raimondi the possibility of fibromata of the urethra developing in the vagina di curres the diagnostic signs and concludes that his case was a dermoid tumor originating from Viulier's duct

Suclair J P Investigation in Luivoraginitis A ch Peliat & Q 4 xxx. By S ng Gymec & Obst

The unreliability of bacteriological examinations of smears and the misleading but characteristic tend acy of vulvovaginitis towards penods of latency led the author to seek for improved methods of vaginal xamination in children. Following the suggestions of Leopold and Rubin the electric lighted lemale urethroscope was used in the routine examination of eighty three infants and the results tabulated u two groups (1) positive cases (1) highly uspicious ases

Vul a vaginal and bichloride amears were made and the clinical conditions of the cervix and agunt a re asce t in d by endoscopical inspection, nd carefully recorded along a th the charal appear an es of the vulva

In but one of the reported cases in which smears were nos tively gonorrhoral at some time during the course of the disease were the endoscopical findings normal In all others of this group there were harmorth gas spot hyperarma or free put on r about th certa. In the highl suspicious cases a whi hatme is we re of course not confirmator) of gonorrhora the endoscopical appearances were ago n normal in but one case

A third table in the report go es the results of the compleme 1 hant on test which was positi t in 50 t of th t n cases thus exam ned The test proved neg t ve a cases at ted from Group a A a re ult of these in estigations the author

r commend the endoscope a most alumble aid n th lisenous of doubttul and suspicious cases CHRISTIAN D II DOL

Sm th G G The Treatment of Gonococcu

bulvoraginitis with Further Observations on the Value of the Complement Function Test in Management of This Disease Am J Des Child en 94 By S rg ( ner & Obst

The description of a practicable method of treat ment of specific ulvovaginitis in ittle girls to gether with a discussion of the questio as to the Hanser H Use of G nococcus Vaccine in Gynecol ogy for Treatment and Differential D agnosis d ff rent al diagnostiche und therapeutisch Bedeutu g der Conok LL n accine n d

kol Le) frek f Gy ak 1913 c 3 5 By Zentralbl f d ga Gyn3k Geburtsh s d Crenzgeb

The author gr es a review of the history of vac canation For diagnosis he use I subcutaneous injections in varying doses of Reiter's polyvalent conococcus vaccine of which i cem contains o to roo million gonococci for local and general infections Intravenou injection is not considere i advisable

The results were listed by examining for gonocorre afterward and in many cases from histological If the local reaction pursists for more than 24 hours it indicates that too strong a dose has been given and the condition is accompanied by an increase in the size of the tumors. Of on cases examined at that were certainly gonorrhocal reacted positively while o that were surely non

go orrhord reacted negatively

Among the positive cases there were 6 acute cases without demon trable involvement of the internal genitalia but with a severe custitis which may be regarded as a circumscribed focus remaining cases examined for differential diagnosi from non pecific inflammations of the adn vatubal pregnancy tuberculous tumors of the adnexa small cystomata pentyphility and exudate n the parametrum gave a 2 per cent of absolute failures and s s per cent of questionable results. Va cina tion for diagnosis theref re is ery useful but not absolutely rehable as negati e results prove nothing and reaction may be pre ented by old ma to e for by mixed infection o by too small dosage

Schridde maintains that gonorrhoral salpingiti can be diagnosed absolutely from the hi tological picture Hauser found that n 22 cases that were ertainly gonorrhord the pit re described b Schridde appeared but that in that were ery probably non gonor heral and reacted n g to ly

it was also present

Twenty three ases were treated with ac in beginni g - if th pati nt wa not in a negrti e hase caused by auto noculation - with or Rester s accine ontains g three hu dred mill on Ih ee to ight nject as were give increasing the dose to o 8 ccm a d in ne case to 10 ccm the ma 1mum lose

I jetion were t ga en duri g th mens, or while there was feve and a rise of temperature was avoided if possible. In almost all cases there was improvement of subjective symptoms and general health Of 8 tumors of the adnexa 5 were cured and 6 improved. Old tumors ga e no results re cent ones en cases of hydrosalpin as I rge a an apple gave surp usingly good results. In 3 cases of cervical gonorrhora 1 of cvstitis and of inflam mation of B rtholi gland there were good results and in use of arthritis there was rapid and complet recovery Connect e t sue cha ges and adhesion were not ffected 's vacc e treatment is not absolutely without danger it should be kept under careful observation with the patient if possible at rest

Horwitz R E and Obolensky, N A. Giant Tumors of the Female Genitalia (Zur Las 111th der Riese geschwulste der we blich in Geschlechtssphire) Li chr f Geb ish u Gy dk 1913 xx 123

By Ze traibi f d ges Cynal, G burt h d Grenzgeb

The first case was that of 3 43 year-old \ para whose abdomen had been increasing in size for a years causing difficulty in breath og A hagnosis was made of a combination of myoma of the uterus with overran cyst Laparotomy showed a hard tumor of the posterior wall of the cervix located outside the peritoneum. There were adhesions with the sigmoid flexure and the left ureter which had been transformed into a hydro ureter by pressure from the tumor. Healing was by first intention. The weight of the tumor was 17 kg Vicroscopically the tumor consisted chiefly of connective tissue the lymph spaces were diluted in was found to be a retrocers scal fibroid of the uterus 1 peculiarity of the case was the extraperitoneal situation of the tumor which was due to its de elopment from the posterior wall of the cervix

To differentiate it from ovarian cyst was difficult.
The second case was a 38 year-old VI para whose last delivery had been 6 years before after that she had had nam in the abdomen which had increased in size the growth being very rapid for two years past The diagnosi was ovarian co t Laparot my w lone and a cystic subscrous myoma of the uterus wa foun I and there were adhesions with the m ntum Th ecovery was uneventful The

t mor w ghed 22 nound

The third cale wa a 30 year old IV para whose t d l ers had taken place 6 weeks before. Soon aft r delt ers the abdomen increased in size and at exam nation was the size of a ten months preg nan . She had difficulty in breathing and was troubled with constipation Operation showed

adhesions with h er and omentum 22 600 gr floid I fluid was implied on the puncture ovarian cyst was found on the left side

recov ry was une entful The author comes to the foll wing conclusions

(1) The diagn sis in giant tumors generally has to be m de on operation (2) Laparotom; is to be preferred to vagin 1 operat on (3) Careful covering w th perstoneum should be done to avoid ileus and sep# Gr\seceg

Steffeck, P Operati n for Incontinence of Urine and Severe Genital Pr lapse (B strag ur Operation dr I co t rioze und der grosseren t Gent prolaps ) Zisch f Geb ri h

By Za trubl I d ges Gynal u Geb rish d Grenzgeb.

Since incontinence f urine is not permanently cure ! either by ant lor colporrhaphy or by narrow

ing or rotat on of the weethra. Stelleck proposes a new operation for cases which are not affected by massage of nesert tr atment. He males a conrave incision anieriorally in the anterior vaginal wall completely frees the bladder from the uterus and vaging white the antenor vaginal wall almost to the urethral opening opens the pentoneum brings forward the uterus ligates both tubes with sill sutures replaces half the uterus in the abdominal cavity inserts a purse string suture in the bladder fastens the bladder personeum to the posterior surface of the fundus of the uterus at the top fastens the in the upper angles of the vagnal wound and closes the first vagnal wound. The bladder is thus fixed not behind the pieru as in the Schapta Werthern operation but above it

The author operates in the same w y for advanced stages of prolapse when the patients do not expect any more children if they do be recommends pussary treatment and as much of the superfluous posterior recurrence by pushing the posterior variati wall un with the end of a long curved spatula behind the uterus and fastening it with silk to the uterus at the internal os and laterally to the sacroutering frament - the necessity of posterior colporrhaphy is thus done away with He fire hes

with a perincerrhaphy by the Lawson Ta t method
In conclusion the author describes a case of total prolance of the var na after extension of the uterus which he treated successfully by ventrofixation of the v gina. In eases where a pessary does not hold the prolapse in position, he applies two hard ring pessaries of different sizes which then stay in place PRANSPOSTER

Novak J Iffect f Remoral of th Adrenal on the Genital Organa (Uber den Laniuss der Vebenhierena sschaltung auf das Genitals) A k

J Gyndk, 1913 to 36
By Zentralbi i d ges Ganak u Geburt h d Grenzgeb

There is very little known f this subject clinically and hoval tried to extend the knowledge of it h experimentation from his experiments a snimals he concludes that ( ) extispation of th adrenals in rate causes a hypoplasia or atrophy of the genital which is more pronounced the younger the minal is at the time of the operation (2) Partial extings tion of the adrenals does not cause any injury to the genital organs (3) The genital atrophy is especially marked in animals in whom tumors of the adrenals have been produced artificially (4) The general strophy is not due or at any rate only slightly so to decreased nutrition but comes from the cutting off of the specific internal secretion of the adrenals (5) Potency and capacity for conception are markedly decreased in animals from which the adrenals ha e been removed (6) Pregnancy need not necessarily be interrupted by removal of the adrenals. The few chit cal results known re in accord with those obtained by animal experim 1 AFREIZ // dottet

Choledkowski A M One Thousand Laparotom es, Abdominal and Yagimai (2000 Laparotom), sbioman i und vagnal) Neck & k k li li Mrd & f & f 1913 x 11 760

By Zentziki d gee Gynit u Gebursh s d Grengeb

The author's work consists of to dive one which are summaneed as follows

In on hundred and twenty cight cases of myoma, he found that in fibromyoma the adnexa were generally involved. They were her gn anatomically even when they were not so chancally He recommends supravaginal casarean section in myoma in myoma and pregnancy he recommends operation if there are multiple myomata expectant treatment if there is only one

2 In one hundred and ninety two cases of cancer of the uterus II were operated on through the abdomen, and 181 through the varing

2 He found one hundred and twenty sax cases of customs. In such cases of the corcumference of the abdomen is between 100 and 110 he recom-mends the opening of the abdomen above the umbilicus because of the possibility of adhesions between the umbilious and the symphoses

4 In twenty two cases f mahonant new prowths of the overy one case I malument tumor of the ovary with preenancy in which a supravagual catarean ection was performed is especially note worthy. There was recurrence in the operation

scar two years after the operation

In one hundred and s tty four cases of in flammatory conditions of the adness concernos was responsible in the majority of the cases. In regard to the relation between automotive and appendicitis appendicitis appears as a secondary affection n salpingitis only when the appendix is consenitally abnormally long. He denies the close connection of the lymphatic systems of the appendix and adnexa

6 Of 1xt1 eight cases of extra utenne pregnancy 62 cases were undateral a bilateral in the tubes a in the ovaries i interstitual i in a rudimentary accessory cornum and 1 in a tube emptying into a rudimentary cornum. In almost 78 per cent I the cases the typical symptom of cramplike pains in the abdomen was present in 66 t per cent there was hamorrhage from the ragma in 33 per tent there was retained menses. He agrees with Dou-rand that operation should be performed before five months expectant treatment after five months

7 There were 90 cases of retroversion and flexion of the uterus. The treatment consisted of massage or operation either abdominal or vaginal. In 85 per cent of the cases there was pain and painful costus

8 From one hundred and eighteen cases of prolapse of the uterus he concludes that retro versioflexion of the uterus in pregnant women leads later to prolapse

o In nanety three cases of congenital anomalies of development of the uterus monthly pains led to

removal of the adnexa

to There were two cases of traumatic intury of the abdomen through the vagina

II Of casarean section there were six cases The author is a strong advocate of this operation 12 There were four cases of echinococcu in the abdominal cavity in one case there was a severe combinat on of multiple echinococcus with preg nancy and appendicitis

13 In all there were eleven cases of tubercular peritoritis For this the author advises operation 14 In twenty two cases of post operati e hernia there was one case of plastic operation on the

intest ae with good results

15 There were seven other hermas 2 of the lines alba a of the umbilious and a inguinal hernia with prolapse and incarceration of the left ovary 16 Of pyometra there were seven cases with in

flammatory adhesions in the cervical canal

17 There was one case of primary carcinoma and 6 malignant new growths of the uterus and intestines The uterus was removed for metritis in e ght cases. The author believes that this operation should be performed oftener after the forty fifth

10 Talma's operation for ascites was done in

one case

The author describes the technique of abdominal incision hemosta and autoplastic operation He calls atte tion to the fact that good control of hæmorrhage is necessary for a favorable post operative course and lays special stress on peri tonization He recommends irrigation with Lock s fluid and thorough closure of the scar as the best means of securi g uninterrupted reco ery and a ording ileus

Operations, from 1991 1911 (k.ntil. d Todes falls ach gyntkologache Eingraff wahrend d Jahre 901 g) 21 k f Geb n k Gy dk 19 3 km, 757 Loliger E Cases of Death after Gynecological

19 3 lx21 757 By Zentrafol f d ges Gynal. Geburtsh d Grenzgeb

Of the 63 deaths reported 62 or 37 1 per cent were due to infection embolus caused 18 or one quart r of all the d aths myodegeneration and acute dilatation of the heart was the cause f death in 28 cives 11 per cent I streme Trendelenburg position is to be avoided Hi rt d sease anaesthesia and nerve shock freque the cause death to death resulting purely from the anasthet c wa observed but ther were five deaths after peratio for my ma confirming the relation between m oma and heart degenerat o Preumo i nel bronchop cu mont were obe t d t mes o ases died of acute anæmia among th m ases of extra uterini preg nancs brought to the hosp tal too late Post-opera ti e ileus wa hoerved only nee Th 8 case of cachezia were lue with two exceptions to malig I rtbc causes of death were nant tum r perforat e perstonitis three times air mbolus twice and complicat us in th utinary vitem LW ICE

The means of avoiding these fatalities are discu sed Spillmann's method of disinfecting linen and cateut is lescribed and the disinfection of the hands with tetrachlorethyl soan solution and acetone alcohol Lugol s solution is recommended instead of fincture of lodine. The author warns against washing the gloves with bichloride during the operation claiming that it does not disinfect the gloves and that there is danger of carrying bichloride into the wound. He thinks irrigating with sterile salt solution is sufficient or a change of gloves if necessary Air borne infection may be avoided by having the operating room frequently aired and having it face the south so that sunshine is freely admitted Thorough ponging of the abdomen prevents its becoming infected with pus Hohne's method of applying oil is of no special value. The period of anasthesia hould be shortened as much as possible and likewise the amount of the anasthetic given should be hunted to the bare necessity de Veronal scopolamine morph ne (pantopon) should be given in preparation. More extensive use of local an esthesia is recommended and spinal anasthesia is rejected. The numerous thromboses and emboh may be avoided by early m vements of the legs and respiratory exercises After laparotomy the patients may get up on the fifth day after operations for prolapse on the seventh to eighth day To decrea e the coagulabilit of the blood fruit acid should be given in large quantities Careful examination of the lungs especially at the time of influenza epidemics will hmit lu g complications lleus may be prevented by avoiding the use of antiseptics in the wound polished gloves damp abdominal aponges, the lea ang of large stumps careful covering over with perstoneum being advised

Peham II: Radium Treatment in Gynecology (Zr Radı mbehandlung n de Gynakologi ) Il se kl Il å sek 1913 km 1650 ll se

By Zentralbi f d ges Gynak Geburtsh a d Grenzgeb

The author in using radium in 12 gynecological cases found that tumors of the female genutalia that could be straduated directly were favorably influenced as has long been known to be the case n skin arcinomata From experience thus far howeve radium cannot be called a specific cure for ancer therefore at present there is no justification in recommending radium in the place of operative treatment. The author thinks it questionable to ubmit an early carcinoms to a long radium freat ment for the chances are decreased by delaying the extratio but he recommends the use of radium in inoperable case and a recurrences

Recasens S Organotherapy in Gynecology (Organ therapie d Gynik logie) I Inter t Cong By Ze traibl i d ges Gynak Geburtsh d Grenzgeb

The relations which exist between infantilism dy smenorrhiza and hypoplasia of the ovaries caused Recasen to attempt to treat such c-sain regardency. In facults of the treatment lies in the fact that entracts I signs from different species have to be used as it impossible from ethical con I krations I remot the organs feelily indicabilist but some time attention operative case can be binamed. He arother has myoman—her proposes to C II to out in myoma—her proposes to C II to out in myoma—her proposes to C II to out in myoma—her homose than the animal preparation.

It has long been known that in mysers of the uterus there are chang at the same must be marcocopically by an it may be a limit and interesting the property of the interesting all of the treats of the interesting all of the treats of the interesting all of the treats of the mysers and tone at the case of the occupant in myom has a tertain tee militance in the changes in the uterus and tone at it is usue element in myom has a tertain tee militance in the changes in the uterus in the arity roundle of programment where always hyperactivity of the ocasy. It stologically the torus changes are the continued by a hyperpre to tone of an estimate of the continued by a hyperpre to tone of an estimate of the correction of the ocasy. It solds to make the correction of the ocasy mostly and the continued by a hyperpre to tone of an estimation of the myon of the uterus in the pre-ment multiperiod with his been minuted for scribed if m the 1 it beg all point of vices 1;

ace mpaniel by fa hy d lin i ith me-In a great many women is men reh 14 II t the est lib I me nt of r gul seau l la w wh h n I th la rith i elopment i th at fatms ! how er t onti u anomalies the arms of new ald turbane the uterus rm : h poil to i fit u m memirane nes t tian an en 1 je mitt 1 condition terling at crally or pute 1 menoril on hat r form I belet no I network presented b the tt t t r manifested by m north gia the trul flew gradu il decreases if il t pe i il ing who he preud heatencal ampt me g rall er In or rian nuff t th ut! ŧ ved

on an an extract from women with mooms la us use on the au unpilon that it has beightered I not secretory activity. The orange same from theilth women under 35 years of are operated on for myoma. There was a marked increase in blood preventer in all cases but unfortunately the author in print only years. The extract a signer by subcurareous unfection every three days for a period I one it seemed months. In its case of memorith at there was recovery in two cases are not to be a second that the print of the p

Fon Franque O Split Pelvi Duplication of the Internal Centralia (Uber p. tiecken 2 rb + o Bet 2 ru V rd grelang lers here Ge tal en) 2t 4 f C 4 til Great 19 3 ftr 6 8 fon M d 4, f als u februt h 4 d franço

1 22 year lin m n who had rees tout had no ympi m a 11 tilof her freich libs forceps.

On war i sh ha i penne i tear an i symptoms of pril pre tin xarn two everal months lat r on u t tied perm it r wa found prolapse of th nen r grad well votox I and retro exed tru with the eres the in the agina pel m ut nt were pra ticult n rmal but the we will m broad at the mphysic t 6 m th r w o l tr fthe rearruscles a d no multiormate f the tladler R regener m nation he west t f I gas f the second form titital in mladit to file ad holiche hu bī the was presented found bed thet we the a m l f let kpm nt in the int mal o t r d gern he rth at l m nal wall If pe at n or sated f at mor colpu ont ant "ext n of the utera ha short marg the tou d ig m of and ( nor at i post rior porrhaph) The to of the pents I muscles we made on dill lt l t nie tra erie tension When the put ni a fischarged th utern a nt fexed the vigina was r with the upper part but g p gi th i we part the tures half iled to hold it is a srecurrence and rister another

nou essind oper as performed. The the hat it race of split pals which we mist is with it is of the rectu muscle in time age in the bowed of a shonormal fe begin it that a new we chapt attending the split in the sp

## ORSTETRICS

# PREGNANCY AND ITS COMPLICATIONS

Herz E. Extract of Hypophysis in Placenta Przenia (Hypophysent trakte be Placenta prz. 12) 2 / albi / 65 dk 9 3 x 7 536 B) 7 traibi f d ges Gynak u Geburtch d Grenageb

The author hw used extracts of hypophys as reases of placenta prava combined with all kinds of methods of treatment rupture of the membranes Bravton Hicks version and intra annuotic metreury 1 and in 5 of the ca-st there was strengtharing of the labor pains Once there was no effect and once pituit in cau ed a pastic contraction of the sand dela ed delivery. He recommend extrect of hypophysis (1) after rupture of the beneficial and the same of the case of the

Harrir J A Effici nt Vethods in the Treatment of Placenta Practia \ 1 St J V d 9 4 zi 8 B3 bur Gynec & Ob t

In we sexing the histories of 70 patients dying of placents praisin in the N w Jork Lyang in Hospital during the pat 20 y 175 the author found that 30 f there cases were rect et a condition of shock an 1 almost morbly of from nutte example attom to use they hid ben allowed to bleed for hours and days under the cre f their pri are physicians without in worr of treatment at all.

In the series it was found that 50 of the cases did of bock, and hemorrhage 14 died of pur peral infection of rupture of the ut rus and 10 of orderns of the lungs. These 70 deaths represented a mernal mortal ty of 5 per cent in 466 cases of pluenta p zevia occurring 1 8 coo confinements.

This series of 466 cases includes the goup of 30 croptored by 4 Phenson in 908. In the group of casis deli ered pinor to 1908 the maternal mortality has recorded 1 it 8 per cent. In the group of 216 cases deli red the ucceed g 3 years the maternal mortality has fallen to delven and one hall per cent which the author believes is due to the foll mag rasons () Pat it sare now sent to hospitals rasons () Pat it sare now sent to hospitals reasons () Pat it sare now sent to hospitals reasons () Pat it sare now sent to hospitals reasons () Pat it sare now sent to hospitals returned to pat it sare to the control of the same to determine the placetal pressur accountement for 18 being abandoned a d recourse is being had more frequ mit to it yle delivery by casarance to the visual case of the control of the same pat to the same pat the same pat to the same pat the same pat to the same pat the sam

The utho refully considers the diagnosis of placents p as is and concludes by ad ising the following treatment. If the patient is a primipara sea term with living child and ha the first hemorrhage with the c rivi still og and losed

abdomanal grassians section will probably give best results. If creating section is contra indicated in these cases tampons of indoform gauze should be used. The Voorhies bag should be used when the cervit is found dilated to two fingers and mother and child in good condution. If the cervit is two or more fingers dilated and the child dead or now rable bipolar version after the manner of Bristian Hicks should be done. In certain cases he advises the use of the metreutyniter. Way D Phillips.

Keller R Changes in the Follicles of the Orary During Pregnancy (Über V nde u ge m I likeinpparatics Ovan ms wahrend de Schwan gerschaft) B t s Geb t h u G) dk 1013 xiz 3 B) T traibl i d ges Gynak u G butt h d Grengrib

In the author's morphological study of the changes in the folicies of the owary dump grancy twenty four cases were examined 6 of them in the second to fourth months of pregnacy in the fifth to the seventh and the rest in the latter months. The author considers repeated with the control of whether ovulation ceases during pregnancy and the comes to the conclusion that all large follicles undergo atreas until the end of pregnancy while the pimornial follicles probably bee u 'f the special resistance of their cells and not of the follocies in the earliest stages of decipo me t'i e preserved. He concludes therefore that a ovulation occurs during this time.

tresia of the follicles and the development and degen ration of the corpus luteum are also discussed by the author He disti guishes two forms of atre is of the follicle a cystic one which involves mostly the larger follicles, and an bitterating one which affects the smaller ones His findings in regard to proliferation of thecal lutein cells confirm those of Seitz Wallart and others while his find ings in regard to the origin and retrogression of the corpus luteum agree with those of Meyer and Cohn The corpus luteum consists of two kinds of cells the real lutem cells which originate from the epithelium of the granulosa and are therefore epithelial and the small epithelod thecal lutein cell which are connective cells from the internal theca The retrogression of the corpus luteum is very tregular so that no laws can be laid down in regard to it SCH CE THE

Elsenbach VI Heurt Duscuse and Prefinancy (Ub r H ur k ankung nd Schwangerschaft) Beil Gebari k u G) k g 3 xux, 39 By Zeutralbi f d ges Gynal. G b tah a d Grenzeeb

mong 3 037 dehveries the author found 45 cases compl ated with heart disease. There is generally no serious danger if the heart lesions are compensated Difficulty is to be feared only in especially severe forms. The hind of heart levion has no especial effect there is even no particularly in favorable effect from mitral stenois.

If failure of compensation begins during personally and internal treatment has no effect abortion should be performed as soon as possible. In the second half of pregnancy a quick and conservative method is vagnal inc. ion of the uterus under spinal anaxishesis. There is no tendency to spontaneous abortion in heart disease and the danger during

delivery is generally slight

Pure valvular lescons do not offer any danger if the heart muscle 1 in good condution but if the muscle is diseased the sudden variation in pressu caused by the pains may lead to insufficiency in the very beganing of the second stage sten if there have been no simptoms of its diseased the subset of the position before Generally a shortening of the delivery by operation is not necessary Operation should be limited to those cases in which there is a threatening naudicinency during bloor due to secter disease of the muscle. If the course of earlier pregnances his shown that the add to not burden on the heart entailed by pregnancy and labor threatens the womans life operative territuation 1 indicated

There is no increased danger of at my in heart disease. Purperal infection even of mid degree may cause grave danger if the heart is discussed there is senious danger of endocarditi and the patient should not be allowed to get up too soon

Aurilia is not contain indicated in heart d wase except in severe cases of faulure of compensation. The children of mothers with heart discase are generally normally developed. Age is of get t signifcance in the prognosis the older the woman the more danger. The mustle go are propresently a sorie with advancing years, and also to the unfavorable effect of repeated pregnancies.

Helse F : Carcinoma of the Uterus and Frequency (Uterusarcinom ad subs age sch ft) Langen anka Hendt & h. well o ; B) Zentribl f d p. typak (b risb d Crengeb

The author levenbe three cases and desures a detail the co-existence of carrisons — it has the uterus and pregnancy and cites the following cases. The first case wa a 151 get of 11 III pur who had a caulifion or carcinoma as large a an apple posteron ally and to the right of the cerves in th n inh to the tenth month. Then, had been harmorth ge for two seeks. Versatena vection was done a diadominal

inial exterpation Death resulted a year later from recurrence The child I ted

The second case was a 3 3 a old \ pura with

hard nodules in the cervix in the seventh ( eighth month of pregnancy A and in section has per formed also abdominal total stripation and left sided nephrectomy in account of cutting the uneter in removing the glands. Reco. try followed The third case was a 36-year-old IX-pura, who had a cauhiflower carcinoma as large as a walnut on the postenoring of theos in the third to fourth month of prignancy Recovery followed abdominal total extinuation

The author rectors the frequency of uteractions during preparaty as of per cent functional during preparaty as of per cent functional during preparaty as of per cent functional during the rapid development of caracinoma during pregnancy he points out the better nutritive conditions for the new growths that are brought about pregnancy, and the greater westness of the body on account of the production of until fur bodies both account of the production of until fur bodies both the diagnost of caracinoms of the function of the difficult function of the difficult be recommended testing the cervical often difficult to recommend testing the cervical

tissue as 1 its frability by means of a fine careties. In treating moperable cancer the chi a line may be taken into account and the author believe this is furthered more by general treatment to improve the mother's strength than by local symptomatic treatment of the cancer. In operable careting the first two thirds of pregnancy the West beam Bumm operation should be performed at the concentration treatment of the cancer without regard to the child in the last third and during labor the classical caresans section is to be perferred. In cases where operability is in doubt be recommended exploratory 1 wester.

Rübrimen W Trettment of Pyelitis during Pregnancy by Irrigating the P lvis of the kidney (Lut B handlung der I yehts gravd rum m tiek kurrubeckengülungen) Litche f. p. 81

Less 1017 v
By Zentralbi I 1 ges Cyntik Geburt h s d Grensgeb

There is no unanimity of opini n in regard to the treatment of pyelonephriti in pregn nt omen in mild ca se rest in bed copious drait, ag of water and loc I heat is suft sent. In se ere cases irregation of the kidney pelvis after catheterization of the uniters. I n excellent treatment

Three c vs. have recently been treated in this way and in two of them cur was atturated to such a degree that bacteria could no longer be done not-it red. In all the cases that deares as unit real tasce it w a color infect on once a mixed in fection fection of plotocom in these were as jo and it o cera turbed unser litered in the perior. The hypertons were mad into both ladiest properties of the perior of the period of

Mann Glycosuria of Pregnancy a Form of Renal Busbetos (Die Schwangerschafteil kro n F rm des renales Disbetes) Zi, h f kl. Med

to 3 lex at 488

By Zentraibl i d ges Gyntl u Geburt h d Grenzych

The author examined the blood of the women at the gynecological chair at Breslan who showed glycouns either spontaneously or on the administration of sugars. From his results it seems that almost all pregnant women have a latent read almost all pregnant women have a latent read cases it appears spontaneous diabetes of pregnancy. In some cases it appears spontaneously in others only after an excess of carlohydrates or grape sugar has been given. These differences are explained by the greater or less functional injury to the kedney given. These differences are explained by the greater or less functional injury to the kedney and the superior of the blood where it their within comparation of the blood where it their within comparations of the blood where it their within comparations of the dood varies a little fit fit be sugar out into if the blood varies a little but up or down the kidneys react with a greater or less output of sugar Braco Worger.

Nonak J Porges O and Strisower R. A Peculiar Form of Glycouris in Prejnancy and Its Relation to True Diabetes I Glycouris of Prejnancy (Ube eine beconder Form von Glykoru ein der Gravidutit und ihre Beziehungen zum echt Diabete I Schn gerschaftstykos ne) Zink I hit Mei 1913 lixum 4 3 ByZentrüll I dig er Gynik u Gebruch is de Grengeb

From their experiments the authors come to the conclusion that glycosuma during pregnancy is due as a rule to hypersensitiveness of the Lidneys to sugar in the blood but that in most cases there is no d sturbance in carbohydrate metabolism \either the spontaneous nor the alimentary sugar output dur ing pregnancy can be taken as an indication of the existence of a liver peculiar to pregnancy with demonstrable anatomical and functional changes They also report three cases of pregnancy complicat ed with true diabetes. The h rmful effect of di betes on the fortus was shown in these cases as well as the injurious effect of the pregnancy on the course of the diabetes There was hydrampios in one case which is undoubtedly due to the diabetes The most import at difference between a true dia betes and an intense glycosuria of pregnancy is in the sug r content of the blood Bat o Wotze

Jahnel F Psychic Disturbances in Pregnancy (Em B trag r k mtn de gei tge Stbunge bei de Ekkanpae) A k f P j kui s Ner r k 0, 3, lu 005 B) Zentribli d ges Gypāk Geburtsh s d Grenzgeb

Psychic disturbances are not unusual in eclampsia occ rring in 6 pc cent of 11 the cases. Jahnel repo t two cases in letail as follows

In the first as, a seeman who had als y seem will had see real att it so of calmpass after her first del ry whi h w r. followed by a t porous conduto Mr r a hort persol of clearness he had an attack i hillucriatory lehrum lasting two days. She hi hallu nations of seeing animal and small moving objects there w s a ety ad defined to the seeing of the seeing the s

In the second case a 25 year old priminara had sever a tatack at the beginning of eximpina which stopped after deliver. Three days later a state of annous evicient due looped with sensory deliu sons which gradually increased in intensity and at its maximum there was annext; confusion and motor restlessness. The excitement gradually decreased and disappeared entirely after twelve days. There were defects in memory in this case also but not so pronounced as in the first one.

Eclamptic delirium shows many points of resem blance to alcoholic delimin but is distinguished from it by a lack of suggestibility for hallucinations and a real occupation delinum. Retrograde amnesia is characteristic of the psychoses of eclamp sia and is regarded by most authors as the result of a general depression of all the psychic functions caused by the pathological processes adema of the brain hydrocephalus brain hæmorrhage eclamptic psychoses generally appear in three forms a short stuporous condition without excite ment or confusion or in one of the forms described above Frequently but not always there is fever The eclamptic psychoses must be differentiated from epileptic alcoholic and other forms of puerperal psychoses It may be distinguished from epileptic psychoses by the lack of aggressiveness from alcoholic psychoses by the history and the lack of suggestibility for hallucinations it can be distin gus hed from the ordinary puerpetal psychoses by the history of previous attacks of eclampsia and kidney disease The treatment is the same as that for eclampsia

Curtis A H Vomiting of Pregnancy Treated by Injection of Blood of Vormal Pregnant Wo men J Am M As 1014 list 606 By Surg Gynec & Obst

The author reports one case thus treated \ 1 \ \text{Var} a fye-seas old had had a purper infection after the first baby the second pregnancy had been interrupted because of a placental prevail the third was normal in all respects and in none had there been any evidences of renal of surbance or intoxication. In about the fourth month of her fourth pregn cy she developed general malaise with a rise of one to three degrees in temperature. With the onset of I fe she had tenderness, dragging and aching p i in the right lower quadrant which be came constant mauses and i vomiting developed which finally became intractal le. The patient was not neurotic and no abnormalities were found

The treatment consisted of injecting into the muscular tissue of the brick 15 cm of hlood taken from a pregnant woman who gave a negative Was ermann test. The symptoms impro ed neighteen hours and although the emess continued a large proportion of the food was retained 1/ne days later 10 ccm of defibrinated blood taken from anothe pregnant woman who also gave a negative Wasserman was injected whereupon complete cessation of omiting occurred in rethieral hours considered house the statement of the control of the

Two more injutions were given within the next two dass therester all treatment was discontinue ! Pregnancy continued un is turbed followed by a nor mai fabor an in healthy child I brand L Con ert

Micholson W R : The Estraperitoneal Casarean bertion; Its lince in Obstetrics. 5 1 by # L' Dost 1914 & me 244 By forg Cymes & West

The operation is really a levelonment of the of t lapare elytrotomy certain med sections and the development of present-dist steps a render us performance ju til able Many foreign operators a frocate this operation but in this country at the

In the h n i of the larger number of operat rathe proce fore is really a trin petitoneal section, the

again before the uterin 1 in n is ma! The Continental parat is have seed in producing modificativ s in techniqu which are to a great extent unimportant I spe ill scot similar to a single f rouse that with an exaggerated certain curse he enly n les el to espedite the dilisery of the bal through the uterire inciten lat if outl if I can are found to work as well if not better

The most satisfict to technique in the authors expenence is a follows (1) Lorgitu' nd inci ion from the amiliers appear? to 1 nd three fagers bel will may lithe ugl the bin fire a and muscl s (2) longitud nel mes son through both layers of the persione I reduction fr m th top of the Ily lder to the point at whi h the leceral I stet becomes adherent to the ut to granting the sa ceral with th g ret ! ut edg through ; t (s) opening the ut ru let in a t ritual her from and (5) street a fih chilaniche t eftheut nie and pent next in 1 1 ps n t th bdom nat wall

according t the rea grazed in these The operation i dei leil mo liff cult th mile Kalanter (tint) hal falementhu is t will be reserved for a uttent upper across a feetion and met forth act i sept som n

Vertes O Pathogenesi of Ectampsia / 1 3 ge me det til moue we il i p o t l

B. Zentralbiffh ( i techurth of nepet The pregnant | h | | ed in an amighal circ contition to the last fhine limpt he r garded 4 Therefore thou (a sph la is aphyla is he k parel 1 a certain evenil partly because Ith I will me nith hanges which take if i th rg fan mai i i i

le la la men à soult la 1 la relederena Leighton & P Th (ause and (ure of Iclampsia

relampe)

n. ( nec & Ubst The author with a onth ! It the tual excit rg ct 1 1 p. hl h prim rt 1

of to umin giving rise to heart failure. He reports 4 cases in which the ingestion of food even milk and whey cause I a return of convolutions and eclamptic symptoms liss treatment is conservati e and he des ribes briefly the Dubl a and

Stroganoff methods as follows The Datha method of treatment includes the

Interpretation memory of treatment occurs for following a treatment occurs with n postable only. Accouchement force is not a located in any form

3 Metabolism is limited and further metaboh m avoided by starvation morphine and gratine

3 Exerction is a fed by purging and irrection I the honels "nest ng 1 n ser used the larg is in some cares. The free is are infused with section Licriboarte se fution

4 Special signs stabs respirators and cardiac weakness are treated. Morphine is used a control convulsion

the strugsmoff treatment a almost identical with the Dubl n except that large do-es of chloral are given with the morphy e to control convulsions, be way of the rectum. The e immation impation lavinge etc are dene with light chloroform anasthet a Un B fruttes

Austin C. L : Felampela with Tot I Abunce of Albumin but Get erall ed Hard Edema 134 Cybre & Obst

The case to tin report a thit of a woman at out as years shi who weem I perfectly norm I all il rough priger ney in e re way \ albumin was free at in the urine at my time. The blood pres re w n t tak n lut th autho not ced that the p t at seemed to tak na good deal of fesh d t ing th I tter part I pregnancy the fat howet c a s men tru il I setted an I had none of the ch tatter tis I ed m

fal tat normally and all went well unt I di tatt was nearl compl t when the had an Mi deli ers of a h ing fortus cultimpia seu th pient had to more tiacks which were tiped? Hedigi is (en section)
The grin mase in wight that to tim had

note ed soon I ppa ed ni he iscovered it to ght b a been fu t a chlor i retention E ( T

State D Stiff I I Shore in Ch. I he think a Short 1 In tep the /entrattifdent us (buent ) ( perserb fr bet n mat 1 The ne 1 ( Th uth belte sied in nd ated is I une nirell bl mis g of pregn nes which we little is um tabo is midet emisch im far peef ensigth borton mug of (a) Let mpo t In one with dit be performed in the bith month after the girth it Li another are in the sea with month fir the fith attack (3) Hydramnios (4) Retroflexion of the uterus (c) Heart diseases (6) Lidney diseases (7) (8) Pregnancy often everts a patho Tuberculosi logical effect on the nervous system and produces psychic disturbances In one case of mame depressive insanity the pregnancy was interrupted in the third month

In general the author believes that if prognancy is the cause of any disease that cannot be cured in any other way abortion should be performed. If every conception causes danger to life or permanent injury to the body further pregnancies should be prevented The consent of the patient must be given for any course of action BOGDANOVICS

Meyer E. Induction of Abortion in Pavchic D sturbances (Zu Frage des Lünstlich n Abortes ber psych schen Storungen) W natrck f Ge b ish n G; ik 9 3 xx in 34 By Zentralbl f d. ges Gynak u Gebu ish s d Grennych

Before taking up the discussion the author goes into the question of whether abortion is indicated in intermittent dementia przecov which is often seen coincidently with pregnancy or the puerpersum It must be taken into cons deration that a new access does not necessarily accompany pregnancy that it may take place without pregnancy and that im provement is by no means assured by the perform ance of an abortion nevertheless the author holds that abortion is justified in such cases. In general he holds that abort on is justified even if the psychic disturbances are not of such a degree as to absolutely demand t if an increased injury to the nervous system is to be feared from repeated deliveres
Abortio not indicated a alcohole parameter / SSEE

## LABOR AND ITS COMPLICATIONS

Freeland J R The Relationship Existing Between the Mechanism and Management of the Third Stag of Labor Am J Obst V 1 194 lv 302 By S I Gyace & Obst

The author's report based upon careful observa tions made upon 600 cases treated at the Rotunda Hosp tal Dublin At the hospital as soon as de h e y of the child occurs the hand is sunken into the abdomen upon the surface of the uterus so that the fundus fits into the hollow of the palm uterus is c ntrolled The hand is simply held in this posit on t prevent ascension of the uterus due to is filling up with blood

N massage of the ut rus is permitted as its use tends to add compl ations The place ta is go en every chance to s parate n mally a d unles bleed ing occurs no eff rt is m de to exp ess the placent until evidence is present that the placenta ha loosened and hes t the low utenne segment or Es n afte one and a half to the hours the placent m yseparate normally Hasty attempts to acceler t this loosening are decried. In a series of 2000 cases so managed the placenta separated by Schultze's mech mism in 8 ner cent of the cases by Duncan's mechanism in 17 5 per cent of the

In the cases separating by Schultze a mechanism the membranes were incomplete in only 5 per cent of the cases while they were incomplete in 15 per cent of the cases after Duncan a mechanism partum hemorrhage is followed by escape of the placenta by Duncan's metho! The cases of post nartum hemorrhage and retention of the placenta he believes are much more common after Duncan s mechanism Because of its incidence and its assomation with abnormal cases Freeland thinks that Duncan's mechanism is to be considered the mech N SPROST HEAVEY anism of abnormal cases

Dilbrasen A Delisery in Contracted Pelvia (Ceburt bei encem Becke ) Med Ala Berl ora 17 735 By Zentralbl f d ge Gynak u Geburtsh s ! Crenzgeb

From the present day obstetrical standpoint artificial premature delivery is not justified nor is the perforation of a living child or one that has died under expectant treatment. In certain cases that are un loubtedly asentic the classical caserean section is ad isable. It is best to perform it before the beginning of labor pains in cases where the cer ix will admit one finger while in cases that are infected or even suspected of being infected the extraperitoneal route should be chosen

Mer a chronological enumeration of the opera tions that try to avoid the pentoneum the author recommends Solms method of extraneratoneal casarean section because it is possible with it to obtain an actual extraperitoneal delivery. It is distinguished from its predecessors by the fact that two incisions are made one an inguinal incision from without and then an incision through the anterior aginal ault a d the cervit in the median line from below The latter incision if necessary can be e tended to the body of the uterus By bringing together the unner and outer incisions a short canal is produced. The uterine vessels and the ureters are not injured

I further advantage of this method is that he cause of the position of the incis ons the distention f the lower uterine segment does not have to be waited for which is very important in quick delivery Moreover by the use of the metreury nter increion it can easily be performed in a private house A cidental opening of the bladder and pento eum can be practically excluded if the directions gt en for making the incisions are carried out exactly Vaginal dra nage with iodoform gauze after delivery is important BORELL

Each P I flect of Contracted P Ivis on Delivery h P I ffect of Contracted P Ivis on Delivery in Normal Head Presentations (Uber de Limfi s des platten Beckens f di Geburt normaler Schäd ling) Zi h f Gebu ish w

Cymil 9 3 kx 9 By Zentralbi i d ges Cyn ku G b rish d Grenzgili From the hterature and the Marburg Clinic the author ha collected in all reports of 4 67 n mal head or entation with a true conjugate between

o can I to cm from which he draws the following conclusions

The effect of contracted pelves on delivery in normal head presentations i at set the same in multip ra as in 1 rin ipara The more for r i le pri un mis for children of multipire with a conjugate to 9 24 cm is due to the lesser I gree of re 1 tane of the soft t we. The slight advantage in favor of print prize to more pronounced legrees of c ntrac tion i probably due to the fact that Il pare III pare and multipare are all call d multipare apparently the condit as f r the pontaneous engagement of the head are le favorable in multi 1 træ

Of the 4 stycase old reed 3647 or 8 percent passed the pelvic inlet pontaneously a I were delivered alive with a true conjugat for cm of a percent with a com as a percent with for em 4 percent with 7 cm 149 percent from three figures the author his milea ery in tructive curre which makes it po blitt give a program in every degree of pelvic co traction and i act e as a 1 s s for therapeuti measures. The curre is especially valual le for teaching purposes. But a

Conv F: Treatment in Delivery in Contracted let to in Masel (the Rh offing de Ch the ngers lecken t i sel) 71 k f G b sk G) 41k t t t f B Zentrally ( d ger Lynast Geburish d Crenzgeb

Iwo thousand cases of I livers in a niracted pelvis were observed. I the period fr m 1902 to among 10 290 obst tr al ses or 11 per cent from 1010 to the mid fle of , th re a re 668 cases of a ntracted pel among out I hors in which 200 children wer leb ed 100; f them or Ro per cert | nia cousts The longest durat on of lat r a n is n s year sid VIII para Of the childre i per cent were born dead or died. In most of the coled it was no tareou.

Active treatment was reserved if the releases lers on was perferred in gr ses a times or a coperce t that gift of er i na per formed to times t a per at them the fed among the hir no lith a re lu t the sersion or figer it by pannueln i at I m 'n -Ct 7 DF CASES N 5 1 FE nin or julighand I'm n used 1 tes of per cent light nega w used olu l sail L f the mother s որոնո ա ձա f th f th hildren led t and 13 for th h ld 11 Li thi epo of 55 of the de th ner cent

In agreem at with Visuber (uns this hish forceps ju taled in " if constructed pel bd that it is the last m n of I h ers ex ept perf ra tion of the child and prefer the t ther ope a tions as being more users t ft the mother an therefore ut bl f in at 1 actice Cramot oms and embrootoms a peri med o ad o times never on the living child they were per formed 8 times as a secondary ope ation Puncture of the membranes furthers normal progress of the labor

I too long durati n of labor may be shortened by secacornia an I pitught lol or by discharge of the water through the rupture of the membranes but it seldom renders a reion in re difficult. Infec tion of the contents of the pterus by vaginal bac tena can be avoided by penodical vaginal douches In 126 cas 4 of inducti n of premature delivery in th first series of cases rupture of the membranes was prac seed soft times and n as of the last senes of cases

\ lew labors lasted only 3 to 4 hours the longest was 18 days Of the 153 children which were born 24 I them we e dead, and 8 died soon after 86 2 per cent of the children were born living and to per cent I charged haing. This result shows the value of artificial premature deli-ery in practice in the home Thirty three cases had fever 15 of them or 11 0 per cent of g stal ongs Of the 130 premature deli eries 8 per cent were spontaneou Pubiotomy was used in 8 cases or 0.5 per cent because of the permanent injury to the mother it should be u ed onl in cases of extreme necessity Castrean section was performed in 12 cases 1 chill and a mother died to of the mothers had puerperal fever. For the entire number of cases the mort lity among the chil iren was \$ per cent counting out those not fur to the contracted pelvis,

8 per cent the tot I me righty f the mothers from paetperal fe ur was 22 per cent reduced 157 per cent mortalit of the morhers total o 5 per cent rolu 1000 per cent The best methol of arts ficial prem ture deli r to be recommerded for the sal of the mothers especially in practice in the hom

Bayer II Rupture and Puncture of the Vem branes and Stricture of th Cervis (Cher Blase pru g and Bi se tich nd über Stricturen dith Zi & f Carbo tak Gr 14 19 1

In Centra Li I d ges Grank Geburt h s d Grencerb The most presing ad ation for artificial

rupture of the membrares aft r complete delatation of the extern I as are (1) Tenesmu (2) herror rhage and (1) pay rant I the aper of the bag of maters ; th vul It; generally thought that the ruptur 1 th miribranes increases the force of the pan it in reses the belom n I pressure but it questionable whether i highten the actual ut me ntractions indeed it freq ently le I to a relaxate to of labor pains for a greater of n tran i ree postton is period frinta I n in the n lu tion of premature labor by punc turing the membranes t not a question of in eres ag the force f the prin but of starting them

The membranes must ne er be ruptured so long as there is danger f su iden gush of water turning the futus on its axis in high positions In transverse positions it is only justified in connection with ver sion if ersion cannot be accomplished after rupture of the membranes it is advisable to insert a metreu ranter to avoid a further discharge of fluid In contracted pelvi rupture of the membranes is contra indicated as long as the head is movable shove the inlet and in stricture of the cervix artificial puncture of the membranes is absolutely contra indicated This term indicates a local ring shaped narrowing of the cervix not so much a pathological tissue change as a physiological effect of the labor pains under abnormal anatomical conditions with defective or irregular development of the cervix He discusses Schroder s and Bandl s theories of the lower uterine segment and its anomalies and concludes that in all cases where there is reason to su pect an anomaly of the lower uterine segment the membranes should be pared

If the membranes rupture of themselves pre maturely care should be taken to avoid an excessive discharge of fluid. If it is seen that the stricture is acting as a normal contraction ring that is that it hinders the discharge of fluid during the pains expectant treatment is indicated but if this i not the case active treatment is demanded. In cases where there is no projection of the bag of waters in front of the presenting part puncture of the mem branes may ha e an excellent effect on the dilatation of the soft parts and thus hasten delivers. While the membrane are intact the foctus is seldom in jured but after rupture of the membrane it is th extened with dangers which how no signs in the mother's cond to so it is necessary to watch the fortal h rt very carefully FROWWER

F lift H II Unusually Larg Tumor of Child Complicating Del ery 4 t t W Ga 10 4 L 4 By S rg Gynec & Obst

The author reports a case which a cystic fibroma weighing two and three fourths pound was attached to the sacrum f the child I the course of growth it had lifted the skin off the sucrum behind the buttock laterally and the permeum below so that the anus and vul a pointed directly forward and the thigh were spread-eagled at right angles to the body The tumo was removed the day after de livery and the hid made a good recovery

CHDa

Solowij A An Unusual Cause of Spontaneou Rupture of the Uterus D ring D livery (Uberselt Lru h der pontane Zerress g der Gebarm it whit dier E timd g) 7 / lbl / G k 0 3 vu 6 3 vu 6 3 Entrubbl i d gro C vo 1 Geb ich d Crenzgeb

A case f an adher t etros rsion of the uterus from gonorrho.al alp ngitis could not be entirely overcome by massage or pa sary. During the fir t pregn nev a di risculum of the po terior will was discovered i th second month. It was a breech present tion but I li 13 wa acc implished readily

by brings g down a foot. In the second delivery there was no di erticulum but there was a snonta neous rupture of the uterus that was only diagnosed by the condition of the pulse 4 minutes after the pontaneous delivery of the child Laparotomy was immediately performed and an oblique tear of the anterior wall found with adhes one of the posterior wall to the colon and mesocolon These adhesions were loosened with great difficulty Supravaginal amputation was followed by death a half hour after the operation. The author believes that the adhesions of the posterior wall caused the excessive stretching of the anterior wall so that it runtured although the delivery lasted only two hours The author believes the pelvic presentation of the feetus in both deliveries was due to the fact that there was not room in the lower uterine segment for the head because of the adhesions The fatal outcome of the case shows that adhesions of the uterus from gonorrheea should not be regarded too lightly

Nebesky O Rupture of the Cord During Labor

(Bettreg ur N belsch u zerreissun, intra part m)
A ch f G ak 9 3 c, 60
By Zentralbi i d ges Gwalk u Geburtsh d Grenzgeb

The author reports 18 of his own cases of rupture of the cord during labor in 13 of which inicroscopi cal examination of the cord was made. He made weight tests of 100 cords 3 at the eighth month 8 at the month month and 80 of full term children From these data and an exhaustive study of the literature he comes to the following conclusions regarding the etiology and mechanics of runture of the cord during labor

If there is nothing to prevent its falling freely the weight of the child alone is generally sufficient to rupture the cord completely In prematu e de h enes the strength of the cord is somewhat less absolute but not in proportion to the weight of the child The foetal third of the cord is especially disposed to rupture the median and placental thirds less so and the placental insertion less. If the child is deli ered suddenly and falls there is little danger of niury to the skull and not very great danger of hemorrhage providing respiration begins at once The danger is very great if there is velamentous inser tion and individual vessels are torn or if from the vio len e of the puns the cord is ruptured before de

The differentiation between a spontaneously and any rate difficult and u certain The force of the uterine contractions if abnormally strong or if the strength of the cord is reduced may rupture it This generally occurs when the cord is absolutely or relatively shortened The greater or less amount of the jelly and the greater o less number of turns are comparatively unimportant Cords with dilated or tortuous vessels rupture somewhat more easily tha those without these anomalies but the rupture is seldom at the site of the abnormality

In very rare cases the cord or Individual vessels in it ruptures when there is no demonstrable cause in the shape of weight increased strength of contactions, shorthend cord or obstetnical operations. Such cases are generally caused by indirect to the histological structure of the cord Hatologically there may be a predipapoint to require of the cord in the structure of the vested or a decrease or loose arrange ment of the connective tassee which is intersever with the july Another factor is the possibility of the full force of the contractions being searcied on the blood vested which constitute the their strength

# PURRPERIUM AND ITS COMPLICATIONS Gayler W G.: The Dorsal Position During th Puerperium as a Cause of Retroversio Uteri

J Am M As tota hu 607 By Surg Gener, & Obst The author asks the question Are we ever mists fied in putting the recently deli e ad woman in the dorsal position? He th nas that this position should be prohibited unless there seems to be an interference with the flow of the lochial discharge while the woman in is other positions. The uteru is larger and heavier than at any time during the woman's life excepting before delivery when a posterior position is impossible. The ligament has e not un lergone involution and cannot support the uterus. The normal bladder or tabil to a usually lacking for several days often cau ng unsuspected bladder dis tention. This tends to push the uterus out of posiing of the ligaments only I gamentary support I the uterus and an exceedingly hea ) and freely morable

with th dorwl pos tron to cause a retroversion. Most authors fail to ment on this in either th it articles or textbooks.

Cayler cites but 10, 74, 85, necological cases which entered his clinic. Of these 11 had uter ne malposition, 70 which were compleated by personal latera toon in the 4 remaining case, the uterine retroversion could be trareed of recit, 10 the dorasi power.

uterus. All of these h we a tendency in comunction

FOW NO L LINNE L

Leidenius L. Effect of Disinf ction of the Paturient Woman on the Bacterial Content of the Uterus During the Pursperium (Unisuchungen ühr den L. fl. od. Diess (kinon d. her sendue f. dan he mg halt des pursperaha Uterus) inch f. d. i 1013 45
Rv Zentralië of gre. Gn. 84. G. burt h. d. 6. ngm. b

The author's m ke's computate bacterialogical study of the bact rial cont int of the locking, about three days allef of liv ry in women sho either edits and the first of the right of the

a z soo bithleride selection in 30 cases mittend of the bithleride 3 per cent hydrogen personic shifts was weed in the start of the start of the start of the was weed in the start of the valley, vagand addition to the dissincted of the valley, vagand douches of warm water were given in to cases, with a hydrogan personic source of the start of the a hydrogan personic source of the start of the a 5 per cent fixed solution in 30 cases, and with a 5 per cent fixed solution.

The author comes to the following conclutions (1) By di infecting the norturient woman the numb r of bacteria in the gen tal can't may be markedly derreased and their ascent to the utery dunne the derocrum delayed (2) By the methods of discofecting the vulva at present 1 use there is only a al ant decrease in the bacterial content of the uterus during the puerperium, the effect being much greater if the hair is shaved and the vilve named with tracture of sodine (a) By using vaginal douches she the number of bacteria a reduced much further than with disinfection of the vulva alone. There seems to be a mechanical effect in vaginal impation for the bacterial content can be decreased with douches of pure water. It is decreased still further by mildly antisentic douches the best one being a o 5 per cent lysol solution (4) All kind of bacteria are enuils affected there being no difference hetw en prim pare and multipare nor loes the length of labor or the time of the rupture of the membranes ha e any effect. At the end of the first week the uterus contains somewhat more hactens than in the beginning. In cases with a rise of temperature there are somewhat more bacters than in those with normal temperature. The practical conclusion is that disinfection of the vulva during labor should be continued and aginal fourheavied [ 25544 751

### MISCELLANGOUS

Paine A & Serodingnosis of Pregnancy a Review Boat 11 & 5 J 9 4 fex 303 B) Surg Cyper & Obst.

lie author go es the h tory of th disposite stram test and tells how it was gradually worked out. If describes in m nute detail the technique of h test and it theory upon which it bedie lie also quotes the results of others in or junction with his ow results at londless that the study of the productive ferments a of great importance in expl nug phenomera f health and disease and that minut up a levelaged it nig great many. It is that the study of the production of the study of the production of the study in the study of the study of

Naumann Faperiments in Demonstrating Pregmancy by Means of Abderhalden's Dialysis (i perment the Bettrage in Sch angerechsituschw in tiels des Dialyster erfahren sich bide hik ) Desizik in d lik is. 9 3.

By Zentraibl I d act you. Geburth d Grentgeb
Abderhalden's method of chalyst for diagnosing
prepages has tested on 5 prepage and 11 non-

pregnant cows 1 detailed description is given of the method of obtaining the serum the preparation of the coagulated placents and the careful testing of the dialyzing thimbles before using them as to their penetrability by albumin and the products of albumin decomposition The reaction was always tested with at least 2 ccm serum and in the 15 pregnant animals it was negative once in two cases the reaction was positive though the cows had al ready delivered their culves. It is well known that in women the reaction is positive for the first two neeks after labor

The late reaction was noteworthy in one case four weeks after calving In the 11 non pregnant animals the reaction was doubtful in two cases and positive in two. The ninhydrin test is shown to be more relable than the bouret test Mr takenly positive reactions are more frequent than mis takenly negative ones This is probably caused by hemolysis of the serum. In working with small amounts of serum this hemolysis cannot be deter mined w th the present method of testing the serum

Scholz H Rosenthal a Diagnosis of Pregnancy (Die Schwangersch itsel gnose nach Rose th l) Berl t erer il li ch h 93 xe 858 By Zentralbl I d ges Gynak Geburtsh d Grenzgeb Berl terär ti lich h

The author calls attention to the fact that Rosen thal's method of diagnosing pregnancy deserves attention a well a Abderhalden's It is a method for determining the strength of the proteolytic inhibitory power of the serum. I'vo com of a casein solution f known strength is placed in each of a series f test tube then o s cem of a serum diluted with salt solutio to a certain degree is added and finally n useend g doses o to 2 ccm trypun solut o which has also been prepared accord ng to leta led directio a which must be read in the original In all the months of pregnancy Rosenthal has found an increase in the phibitory power of the serum as compared with that of normal serum Lot T

Warfi ld I M Presence f Dalyzabl Products
Reacting t Abderhalden a N nhydrin in th
Urine of Pregu nt Women J is M A 0 4 lx 436 By Surg Cymec & Obst

It occurred to the author that if there was a specific ferme t th blood serum of pregnant women it should also be present in the blood waste These subst noes ha e to leave the body by som rout and the most likely one is the urine. These produ ts sh uld be the peptones and amino acids and they should dialyze out a d should th n be found in the haly sat Warfield found such to be the use At first unn and pieces I boiled pla centa were pl ed in o e d lyzer and urine alone in differen e w s n ted in the color reaction obta ed with nhydrin-boiling the urine made no difference. Urine containing more than a trace of albumin boiled and filtered clear and placed in a dialyzer showed in the reaction of the dialysate to ninhydrin no difference from the un treated urinc

The exact technique followed is not given seventeen cas s only were tested the author does not claim this to be a final report but only prelimi EDWARD L CORVELL Dar\

Haenisch The Rontgen Diagnos s of Separat on of the Upper Fpiphysis of the Humerus in Birth Paralysis (Die R atgendagnos der I'p ph DITTH PRINCIPALS (LIDE K INGENIZAGIOS der I Pp ph ysenlosung am oberen Humerusende be Hebutt lahm ng) Verd di d deutsch Röntg-Ge ellsch 1913 it 86 By Zentralb) f d ges Gynal u Geburtsb s d Grenzgeb

The author describes five cases some of which were sent to him with the diagnosis of birth paraly sis The typical rontgen finding in separation of the epiphysis of the upper end of the humerus consists in the appearance of the first center of ossification to the side of instead of in a line with the upper end of the shaft of the humerus which resembles the ridge of a roof. Of the five children three were operated on with complete recovery

Ballantyne J W : Th Nature of Preenancy and Its Pract cal Bearings B ! If J 1914 1 349
By Surg Gynec & Ob 1

The author considers this subject from the stand point of a general survey of the whole field of He takes up first the theories of pregnancy pregnancy of which he cites three viz (1) Preg nancy regarded as parasitism (2) the pathological theory of pregnancy and lastly pregnancy as har momous symbosis This latter theory as advanced and elaborated by Professor Bar the author be heves in and thinks it the proper viewpoint to be t ken

Ballantyne belie es that the maternal response n pregna c) such as mammary changes etc are due t some subst nee secreted by the unborn infant L kewise he beheves the ductless glands are stimulated to u us al effort. He compares the a tion of this kind as similar to the hormone action in digestion and considers pregnancy a physiology at high pressure

In his opinion the etiology of the maladies of pregnancy cannot be solved until the physiology of normal pregnancy is thoroughly understood

Pregnancy is not at present considered as seriously as it hould be by the medical profession More care should be taken in the early months to divert the probable complications that may arise later and for this purpose pre maternity wards should be inte natal pathology should be establ shed worked p n every hospital with a maternity ward and a pathologist should be present to handle th work

Van Tussenbroek C The Influence of Fregnuncy and Labor on the Mortality from Tuberculosis among Women (Der Landus der Schwangerschaft und des Wochenbettes auf die Sterbicht it der weibischen Bevölkerung n T berkulose) inch

f Gyada, 19 3 ci 84
By Zentralbi i d ges Gyndk u Geburtsh s d Grenz, b

The author found the mortality from tuberculoses among women in Ameterian necessed in the first half year after delivery, and decreased in the second hilf year so that the increase and decrease multipone another. Hence the conclusion that the mortal one another Hence the conclusion that the mortal is the same as the general mortality from tuberculosis among security mature somen. In the mortality conclusion for women and the Netherlands there was no shrup full after the end of the period of sexual servicity as there would be if there was an increase in the mortality from pregaring and the conclusion of the period of sexual servicity as there would be if there was no increase in the mortality from pregaring and the control of the period of sexual servicity as there would be in the control of the period of sexual servicing the mortality from pregaring and the control of the period of the

The prevailing opinion that the mortality from tuberculous is considerably increased by pregnancy and labor 1 not confirmed by the author's investigation and her figures do not show any justification for the performance of abortion for tuberculous On this month the aution arrees with Weinberg

Re r

Péterit T Histology of the Amnion and Origin of the Fibrillary Structures (Besidge zur Histologu des Amnion und zur Entstehung der Strükernen Str Luren) ist A z og zie vie tot By Zentzübi i d ges Gynal: u Geburtah a d Greungeb

The author reports the examination of the amunos from the embryon of chackens a to 8 days old with the various methods of statung. There is a definited microscopical description of the origin of the fibrillary network master than a constitution of the origin of the fibrillary network master that a constant and characterisistic part of the similar of Alimining membrane resembling happens abound these vacasies and transformed to fibrils similarizationally with a great increase in the size of the vacasies. The subnor thinks the origin of this cell structure may be added the physical chemical one-process than by purely morphological and often metamicroscopical hyprobests.

Broude J The Patrency of the Carrical Canal and
the Os at the End of Pregnancy (De O rch
glaggient des Cruscalt and und des M ter
mandes in Fand der Volve agress, half) 2 ! 18/
f Oyals 0 3 Kr. you
gly Zentiabl t d.gr. of 3 at U. aburtab d Grenageb
Brande behaved that f the cervical canal was

Brande behaved that I the cervical canal was found patent at the end of pregnancy it indicated that delivery was miniment and to demonstrate this

he examined 180 primipara in the minth and tenth months of pregnancy. In 46 women the created canal was found open. Among these the cervical canal was found open. Among these the cervical canal was found open. Among these the cervical canal was found open in 26 to 25 days. In 2 to 25 days. Among 263 primipara, in the cight to minth month the cervical canal was found open in 28 cases. Among these it had been open 5 to 12 days in 2 to 42 days in 3 and 45 to 54 days in 3 and 45 to 54 days in 3. Among 134 primipara in the eventh to eighth months the cervical canal was open in 4 cases, and in all these it had been open 5 to 4 cases, and in all these it had been open to case and the cervical canal and on does not prove that delivery is about to take place cere in primipara.

Fulci F: The Capacity of the Manuscalian Thymus der Registeration after Preginancy (the Resut too blanghest des Thymus der Stugture nich der Schw agerschiel) Festeribl f all pale 1 par 1 par 1 pale 1 pale 1 pale 1 par 1 pale 1

From h a expe intents the author believes that during pregnancy an attophy takes place in the thyman which I operately marked during the last ter part of pregnancy. In this stage elements can be lemmatized in the remaining thyman issue and the lemmatized in the remaining thyman issue makes which unitan indolestemeter and ispodd lie proposes to give them the nume inflictation cells, and thinks they are probably connected with the cholesterin metabolism of the body. After pregnancy and the process begins at the thymnic which may lead in a comparatively abort, the complete restoration of the organ. Pregnancy as our the property of the organ process of the property of the property

klotz M The Effect of Birth Trauma on Mental and Bodily Dovelopment (Dr. Mologuche Bedeuung des te-depenters om Dr. de gessign und körperuche I turkl ng) disch f d ger V of P wh I oly u I By Zent lbi f d ges tynak u tebun h d Grongeb

There are very different opinions as to the relation between abnormal deh orly and the first them between abnormal sets of very and the first development of the inflant. While the greater marker of hearinolisatis and pedivitaris agree with Lattle thit an abnormal delivery may do irrepeated harm to the beaue others especially litanose are the opposite opinion. The latter followed the history of a senies of children born normally delivered artificially and delivered in a condition of a physica and found the amp percentage of shootmal children in each lits works defective small a number of cases, and compares deviated and in number of cases, and compares deviated children while the lit is are to much fever in number. The question doe not seem to be desided to far it is made more difficult by the fact that exen in cerebral paralyses invenile weak minded ness etc heredity plays such an important part that it is difficult to define its boundaries

From the author's investigations which relate to authentic material though the cases were small in number it would seem that bi th trauma has a certain importance. In 76 per cent of idiotic children he found no other cause than birth trauma

d J The Weight of the New Born Not Dependent on the Mother's Stat of Nutration Bond J 

Prochownik's treatment by the control of diet has been in use for 24 years but results have been shown only in scattered cases and they have not been scientifically t sted. It has been shown on the contrary that the foctus is independent of the state of nutrition of the mother and that it grows some what in the way of a malignant tumor The placen ta contains the same amount of fat for absorption in the severest hyperemesis or tuberculosis as when the mother is in good condition

Animal experiments have shown that in animals poisoned with phlorhizin where there is the most extreme emaciation the placents contains the nor mal amount of fat Well nounshed women may bear small weak children and slender poorly nourished w men sometimes ha e large strong children In nursing t is frequently observed that strongly built women with large breasts have less nourishment than sle der ones

The factors that influence the size of the child are (1) Inheritance (2) the age of the mother at impregnat n as older women whose ova are also older generall h e heavier children (3) special conditions during foetal life such as disease or n Therefore too fect on of the moth or fortu much depende ce should n t be placed on det treatment ER # BE C

Yippo A Icteru Neonatorum and the Secretion of Bil Pigment in th Fortus and New B rn (Icterus constorum and Galle is bst fisekretion school of the Secretion of the Secretion of the Secretion of the Secretion of the Sec be m Fortus und \ geboresten)

B A A 913 lx 6
By Ze traibi f d gr Gynak u Geburt h d Grenzgeb The sam ton were carried out by the author s

own spect ophot metric method. In 11 childr the e cretion of bil pigment in the unine and stools wa almost th m regardless of whether they showed cterus or not ev in prematurely de h ered children no mor w s excreted than was to be expected from their weights I 58 children the bil p gment co t t f the blood was determined n 1 cases repeatedly nd in 4 cases in the mothers

In the blood of the fortus d in that from the umbilical cord there was fou to fifteen t mes as much as 1 the mother's blood Children with

high bile pigment content all had icterus after delivery the content rose still higher and when a certain limit was passed icterus appeared. There were some variations in individual cases but the rule held good as a general thing The bile pigment content was especially large in prematurely de by ered children

The chief cause of the trouble is to be found in the conditions of feetal life. The function of the fortal liver is not sufficiently developed so a considerable amount of coloring matter is allowed to pass over into the blood. As the grade of icterus depends on how long this condition persists this explains why icterus is not influenced by infections. and that even in syphils it disappears at the usual time and that it 1 entirely independent in septic diseases it is purely of heputic origin

LERVAL FR

Ballantyne J W Ante-Natal Hygiene Ped at By 5 rg Gynec & Obst G 04 11 1

The author's views as to how advances in antenatal hygiene may be accomplished are in brief as follows (1) Marriages should be contracted only after a clean bill of health is given on each side (2) A diagnosis of syphilis in pregnant women should be made and the disease properly treated at once (3) St libirths should be registered (4) The sale of abortsfacient drugs should be stopped (5) The medical profession should take a more active part in the supervision of pregnancies (6) Materinty hospitals should be furnished with pre materinty or pregnancy wards for patients suffering from the diseases of pregnancy (7) Help financial and otherwise should be provided to poor pregnant nomen (8) Lastly the author speaks of the hygiene of the honeymoon and says that this may be better ad anced by the education of those to be married EUGENE CARY

Huntungton J L. Ante-Vatal Hygiene Relation of th Hospital to the Hygien of Pregnancy Pd 1 ser 19 4 vi 9 By Surg Cynec & Obst

The author tells of the work the Bost n Lyi g In Hospital has done in taking care of about 2 000 nati ata a vear

The quarters of this clinic are located in a tene ment house opposite the Lying In Hospital and are rented for \$300 a year The patients to be confined n their homes come to this chine at regular interval until labor sets in Patients living at a distance are visited by nurses. In the chine the history both social and clinical is taken and the urine is examined and blood pressure taken Palpation of the abdo men and measurements are made after which the name of the patient is given to a nurse for house name of the patient is given to a muse for mose calls and the patient is instructed in the hygiene of pregnancy. If untoward conditions arise they are sent to the hospital.

It is the author's belief that an ideal pregnancy

clinic could be run for \$ 16 per patient

EU ENE C RY

## GINITO-URINARY SURGERY

### KIDNEY AND URETER

1 owl r O S Ureteral Obstruction Causing Urhary Stabis a New Pilology in Kidney Stones with a New Method of Nephropsys to becure Ideal Natural Drainage. J is M i 1914 lass 367 By Srg Cy et & Obst The urter is upplied with muscular floris which

cause intermittent spurt of urine into the bly bler but the kidney and the upper perton of its pel in have no musculature therefore the kidney and pelvis must empty themselves by some other method. When mankind assumed the upright post non the

When mankind assumed the upright post non the normal kines, Iranage out feed to the stent that the lower calcers are below the low at pract of the didney pebus as at leaves the kiney thus leave and portion in which there is unner; stress strass in a meritan and inde has an leaves cause the term of the leaves and the last and have cause the the fact that ill substance in chemical or play red solution are that need in preceptivion by all as there are however occu locally atones in the kidney without infection.

The author's theory also ac ount for he fact that the ast may ray of kins to me are found in the lower pole or in the period of the kadney. Stone in the upper pole is so use us all and to c in the paren chymn's cry fare. The author has if end the paren chymn's cry fare. The author has if end ce were an oper tunn in which he upper pol is fram inwant and i down as if and it has the upper and it has a so that the upper in lower after an and upwarf as that the upper in lower after and upwarf as that the upper politically and upwarf as that the upper politically and upwarf as that the upper politically and upwarf as the table to the upper politically and upwarf as the upper politically and upwarf and upwarf as the upper politically and upwarf and upwarf

Murard J Value of Surgical Treatment in Brights Disease (1) 1 k r d traitment hrug 1 d k m l I finght) row hr 9 + 3 lb Jur id (1) rate

Murard & re i t mn trai riti i re sew of the t ugt | mter tun un 1n chron c nephrii th much and oper mental study of the first it is poul to and nephrotomy d n m lahed he draw or lu m ti to of the serible children in a file the method It wm t hm if t t onl nit cated in acute att uk walts agat nof the thet put in ru f hr n Lidney m 1) such cases the preterm alvocates last althesoil sou that sult r n tourn n nt The nephra uself h r ì rik niby the operation

The auth it the uputible

surpical operation for nephritis in the but state, caves 1 y Leriche and one by D agoutter. In pittents were operated on during anims or urame cross. In two of the cases und steral rephrotomy was performed and in the third decaysulation of the Early Millery and I rephrotomy of the kit is 4 done All thire patients died silver a lix hours. He sufficient of the condition of the condition of the condition of the condition the pittents were in they fact not become of the operation o

Cal or tr

Walkup J O Hamorrh gle Hypernephritis with Report of Case J im M As 19 4 km 13 Dy Surg 1 pec & Obst

The rarty of the above disease is alouen by the fact hit in 63 increpases only one case was found Walkup stress that the ctology is unknown but suspicious sidure to the owner of the but not a fatty legenerati so or indifferent on the adminal a fatty legenerati is not indifferent on the adminal a fatty legenerati is not indifferent on the adminal by the all ofs. con omit into the humanfrage pret unsympt ms is turn; is, promine t nerse pleauses Death (loss sultant it) cult hours

He r port the case of a ergeant of the regular army age I forty if re in show pulmonary taber calors was proven microscopically. He sho had nodulas u both epid dymu ottu media tubercular kryugit a distrikca with symptoms of tuber

cular at rates

In tre linear which co red almost us pass as a comp need by a gradual loss in Rich and ad ancement of the pulmonary loss. During his at most of almost he pulmonary loss on During his at most of almost and the first manual as a re prin in the right coval which has to prosoure radiated by who of the pin of most the right scorpish that any colored by a loss attack, in the upper I if in mit are good which in the colored by a real form of the pin of th

lost mort meam also shewed a were hance hags in the right is present with blever one in the left not 1 resources from the left not not sequently how of titly degree atton a metro acquerally how of titly degree atton a metro acquerally how of titly degree atton a metro acquerally how of titly degree atton in the mean and the left not not not not the left not the posteroly and the parers show 1 throws with hypertrophy of the island [1] geth m. (Assa 1 B 1 resources)

keyes, Jr., E. L. Concerning Apparent Cures of Renal Tuberculosis. S g Gy et & Ob! 914 B) Surg Gynec & Obst

The author reached the following conclusions regarding apparent cures of renal tuberculosis The symptoms of renal tuberculosis depend rather

upon the extension of the disease to the pelvis ureter and bladder or to the permephritic tissue than to the lesion in the Lidney itself

2 Hence tuberculos s may exist for some time in the Lidney without causing any symptoms

3 Hence also long periods of quiescence may occur corresponding to asentic occlusion of the

tubercular lesion

4 During this time no tubercle bacilli may be found in the urme and the autho s cases suggest that pathological examination of the tubercular kid ney removed during a quiescent period might sug gest the possibil ty of healing without total destruc-

s But relapse inevitably occurs and the kidnes neve ceases to be actively tuberculous until it is

totally destroyed

Belikoff Schtomitsch Diagnosis of Paranephritis (Z r Diagnost L de Paranephritis) Med Obe-913 Isan 733 By Zentrubl f d ges Ch Grenzech

The author points out the difficulties in the classification of suppurations in the fatty capsule of the kidney and does not regard the latest attempt at such a classification as conclusive though he recognizes the anat mical rese rch in regard to the distribution of the uppurations as authoritative He emphasizes the importance of early diagnosis

The following pain points are pathognomonic (1) Immediately below the anterior super or spine of the dium the point of exit of the cutaneous fem oral nerve and in the upper surface of the thigh the distribution of the subcut neous twigs of the same nerve (2) above and in the middle of the crest of the ilium the point of exit f the chi f br nch of the shots pogastric nerve and (1) above the posterior superi spi e of the ilium the point of exit of the thos guinal nerve. These three nerves run between the kidney capsule and the quadratus lumborum therefore their involvement in the ir radiat on of pain in inflammations of the fat of the

These prun point which can establish a diagno : of paranephntss in the very early stages when the lumbar region is not sensit e re also of import nce in the differential di gnos s of other retropent enl especially retrocarcal s pp ration I retro-geal suppuration the signs of poutie with bending of the Besides the e pain points thigh re characterist the t mperature and a neutrophile leucocytosis are diagnost c ign in paranephritis Three case histories of p ranephritis and two of retrocarcal abscess a e given diagnosed in accordance with the above assertions and confirmed a operation

S ROWBERG

Luzour J Albarran Marion a Method of Nephropery (De la néphropeue - procédé d'Albarran-M rion) Thèse d' doct Par 1915 Dec By Journ 1 de Chirurgie

ephropery is being abandoned by the majority of surgeons Luzoir's argument for its retention is based on 35 cases. All of these cases were oper ated on by Albarran's method of utilizing flans of cansule modified by Marion so that the lower pole of the Lidney is not entirely separated from the cap The latter forms a sort of hammock which holds the organ and the fixation is performed higher up The upper flaps of capsule are fixed above the eleventh rib Surgeons are disagreed not so much as to the method of operation but rather as to the indications for it

The end results obtained by Marion are interest ing Luzoi got complete late reports on 28 pa t ents one case which was a failure due to mistaken diagnosis is excluded. The other 27 patients had pain in the Lidney region 6 of them seem to have had croses of renal strangulation. Of the 27 15 were relieved from pain 12 of them were improved but continued to suffer abdominal pain and o ex amination the cause of this pain was found in the genital system once in the appendix twice in the gall bladder once in the stomach once due to picer a pritients had enteritis and 3 movable left kid evs Sixteen of the patients had nervous troubles in 3 cases these troubles disappeared entirely in 4 cases they were sery much improved a of these being neuropaths in 6 cases they were improved-3 of these were neuropaths one of extreme legree In 3 of the cases there was no improvement to patients had digestive disturbances which in 6 cases disappeared entirely 2 of these patients had appendectomies performed one of them had enterocolitis

One case was very much improved after a later appendectomy \1 e times there was sight im prov ment two of these patients have chronic appendicates and have not yet been operated on in a ases there was no improvement these 19 patients there were 3 cases of enterocolitis and 8 of appendicute 8 patients had general process and 4 of them were benefited by the operation

These results are very encouraging and they would have been better as Luzour points out if the supplementary operations demanded by the patients c duon had been performed such as colopers hep topers and appendectomy. These operations could have been performed at the same time as the nephropers GASTON PICOT

Post W E. Th Fffect of Tarrentes on the Human Kidney J Am M 1: 19 4 km 50 By Surg Greec & Obst

The unfavorable results in vperimentation on rabbits in the subcutaneous and by month intro duction of tartrates - Rochelle salts - to prove renal destruction especially of the convoluted tubu in by Underhill Wils and Goldschmidt and later corroborated on dogs by Derce and Kinger, is denied by Fost as not being true in the human klod when an ordinary dose of two or three drains at given the smallest those doses for a full fed ribbit was ten grams of Rochille sails to a 2,800 gram rabbit which would be equi alent to 67 jounces of sails to a 150 pound man—a dose that would of its mag puited be entirely too tonic to make any longeral puited be entirely too tonic to make any longeral

biological comparation. Post refers to Faber's plan of relieving the ordena of nephrits by alkalusing the urine. His case roots following the use of 2 to 3 dram does of Rochelle salts as a rule showed by the hydrogen concentration a lessende adoldy. The ausjority of his cases reported were once lawrange albumnum, on account of the incrediation being contamonated with bacteria; yet some of them showed an increased with bacteria; yet some of them showed an increased with bacteria; yet some of them showed an increased with bacteria; yet some of them showed an increased a syndrome from the ordurar, fooder of solution and

CHARLES E. BUR ETT

An attempt is made by the author to discredit the work of Rowntree and Ceraghty on phenosulpho nephth-lein as a functional kidney test and to show that the lrug when used for that purpose is value less. If brings together many quotations from different workers with arbitrary arguments of his

own in support of his contention

potassium fartrate

According to Ware phenosulphonephthalem out out as dependent upon urmary reaction and gives no true indication of the exer tory ability of the L d neys but is purely an acidometric test. This con change is based upon the observe tion that the minut of the dye is dimini hed in cream cases with alkaline urines and also in crtain other cases with diutesis which is identical with a diminished acidity such as tuberculos of th Lidney and interstitual perhitits Fo experimental relutation is cled the observation of an reased clim natio occurring after mall doses of amous irritants and pa ticularly in the presence fire I lesions caused by nephrotosic immuni serum For al nical relata tion several cuses if tal some are quoted in which the prognosis had been adjudged good because of a good path less output. In conclu on he says to for the t form tion being accurate and precise this is c ptro erted by the theoretical chemical experimental un i im il e dence herein set forth and which forbid reliance on the extra agant claims of pheno-ulphonephthales as a functional r A Lidn 5 test

Beer E : Leukopiakia of th Pelvis of th Kidney and Its Diagnosi Am J M Sr 9 4 slvsi 44 By Surg Gynec & Obst

The author reports from the literature forty five cases of leukopi kin and in ddition two occurring in his own printee. Twint sever ses occurred

in the bladder cight in the urestra and the rest in the pell is of the kidney. He claims that this type of change in the mutous does not as a rule type of change in the mutous does not as a rule type of change in the more type in the rule of the in their exidation are largely to produce a color during their passage down claims the rule of the every instance the condition, were conditionally as the condition of the rule of the letter calculus, strong to literation, or tuberrolous

in the two cases in Bert experience one was associated with tuberculosis and the other was a pyonephrotic condition. The process; an eviolating one which from the nature of the specimen studied can only be an exfolsion from a writer.

of leukonlakia

In the author's cases salecates were found to the unner and it is to interest to note that these salis in the human body are found manuly in the skin and the human body are found manuly in the skin pendages—for example the har and the nath in the first instance the pattent deed from general the pendage of the pendage of

Bransch W. F. Infections of the Renal Pelvis and Ureter Tx St J M d q 4 tz, 305 By Surg. Gynec & Obst.

The author considers prelitin part of a general genito-urinary infection in which the active i fection

confined largely to the pelvis of the kidney (ases ma be hided into law groups those due to averading infection the result of mechanical obstruction it be univery trace; and those due to descend g infection from the ladney or part of the pelonephritis. The infection is more frequent in miss than in fermales. The cause is unknown in its nearly always butter? We hy pelonephritis promoted history and the period of the per

Almost every case of pyelita is accompanied by cystita. In the male almost every case of cystica cystita is the male almost every case of cystica show evidence of past or present renal infection exc pt in case due to urething obstruction or tropule disturbance. In the female cystitia is not no frequently accompanied by pyelits. These rots of the cystics is no clue to the sever ty of pyel tus. Pyelius resulting from mechanic | obstruction

to the urine differs from that d e t descendi g n fection in that when the h fruction is removed the pyelitis will disappear unless considerable hidney

destruction has taken place. In the female mechan ical prelitis is most frequently due to pregnancy It is not extens ve and clears up readily Pain is not usually severe-when severe it may be the result of mechanical obstruct on to urinary secretion increase in intrarenal tension resulting from diffuse cortical infection or perinephritic infection Mechanical obstruction is caused by occluding blood-clots or by cicatricial change about the pelvis and ureter subsequent to permephratic infection In long standing cases pain chill and fever accompanies sporadic acute infection of the adjacent parenchyma

Prelography is most useful in the diagnosis of mehtis in ascertaining the degree of renal destruction and determining whether or not the condition is surgical The author describes a number of abnor malities of the pelvis calvees and ureter brought out

by the pyelogram

The diagnosis of undateral pyelitis from undateral tuberculosis may be difficult if tubercle bac lli are not found in the mine The cystocopical findings may be the same The pyelogram in pyelitis shows the outline of the pelvis usually well defined indef inite in tuberculosis Pyelitis is distinguished from infection of the parenchyma by the clinical picture in acute sentic penhritis and by the small amount of ous in the chronic injection of the parenchyma and by the amount of pelvic dilatation shown

A radiogram should always be made when a cathe terized specimen of urine shows pus in order to elim mate stone Reflex gastric symptoms are frequently

present

In uretentis infection is usually secondary it may result from descending infection and involve the whole ureter or it may be from localized infection appendicitis pel ic inflammation vesicul tis or cystitis and is confined to a part of the ureter When due to ascending infection the entire ureter is seldom involved The urcterogram demonstrates the course and extent of the inflammatory process

The author briefly describes the pathology of the inflamed pelvis and u eter. In the treatment of chronic pyehitis he thinks it best to use all three methods in conj nction namely urinary antiseptics autogenous vaccines and renal lavage in cases of mechanical obstruction remo al of the cause Nephrectomy is indicated for persistent unlateral pychtis causing recurrent attacks of fever nd weakness and unilateral hæmorrhagic pyelitis There is extens e inflammatory distention of the pelvis and destruct n of renal tissue on ne s de as may be seen with dianced pyelius ureteral obstruction as the result of peripel it, and peri ure teral cic tri i l hanges causing intermittent colic W 1 C

Adler II Ch ice of Operation in Impacted
Calcult of th Ureter (D hos de I t rention
d les calc I acla é d luretère) The d dort Par 9 3 Dec By Journal de Chirurgie idler work is based o ases published with very little detail. He discu ses the uitable su meal

procedures when the calculus is or is not complicated with anura when kidney stone is or is not present when the condition is primary or secondary uni lateral or bilateral septic or aseptic when there is at the same time a disease of the kidney independent of the calculus in the Lidney of the same or the onposite side etc

It is impossible to follow the author in his discussion of all these pathological possibilities but the conclusion to be drawn is that an exact knowledge of the functional condition of each Lidney is abso

lutely necessary

If the Lidney is dilated infected or not function ing the calculus becomes a secondary matter and nephrectomy is the operation of choice but if it is only moderately dilated has no calculus and is not infected the ureteral calculus only is to be consid ered and its removal will considerably improve the condition of the Lidney

As a general rule when there is calculus of both the Lidney and ureter a double operation is neces sary but patients have been known to recover after ureterotomy when a calculus was left in the Lidney If the calculus of the ureter is movable it may be pushed back to the pelvis and removed together with the urine contained in the kidney but if it is impacted this method cannot be used. The calculus of the ureter should be removed at one operation and a later one performed to remove the kidney calculus. When the affection is bilateral, the opera tion should be performed first on the least affected

In the question of anuna, Adler does not have any confidence in permanent catheters of the ureter but prefers ureterotomy or nephrotomy but the arguments he gives and the cases he publishes are not sufficient for the rejection of these two methods of treatment which are universally accepted

G SZON PICOT

Dalengon R. Therapeutic Applications of Cathe-terization of th Ureters (Contrib ton 1 ftm des polic tons thérapeutques du cathéfresse retéral) This s d' deci Fa 19,3 Dec B J mail de Chrurg

Dalengon a thesis is a good gene al review of the question based on 38 cases some of which are un published Catheterization of the ureters is am loyed especially in non tubercular congestion of the Lidneys post-operative ren I fistulæ and in some complications of renal lithia is \s to renal nfections the author agrees with Perinean that catheterization of the greters followed by irrigation of the pel s often cures recent pyclonephritis if there is no great degree of retent on It i only palliative in old infections such as ascending pyelonephritis and harmatogenous pyelonephritis I long standing in extens e suppurations such as pyonephroses and in calculous pyelonephriti uch cases irrigation cannot be expected to do more

than secure asepsis preparatory to operatio A post-operative renal fistula will generally close if a

permanent catheter is inserted in the uneter and the author cases confirm the results obtained by Albarian The catheter left in position drains the lower part of the ladney straightens out curves in the uneter and dilates constricted parts just as a permanent catheter dilates a constricted withra

In renal lithrose cathetedration of the uretain undeated in thre cases in neighbor color which lasts abnormally long or in the recurrent forms the contheter left in no-tion of lates the passage and sometimes diloses the expul on of grand. The same thing is true declud use arrested in the uretur based of the control of the property of the control of the control of the property of the control of

Balengon confirms Flot conclessons in this respect. Whatever the reason for performing catheterization of the universe there rules my talways be observed (i) The catheter must be passed slowly and genity (a) the permanent catheter must meet be left in longer than 48 hours (3) immights thus time the pet is and bladder should be irrigated several times 1 day with naticeptic additions.

GATTON PICOT

#### BLADDER URETHRA AND PENIS

Gérard M Injuries of the Bladder by Impalement (Des bless reade in code par up lement)

I d al 19 3 1 540 By J urnal d Chururg:

If an undu visual fails and as impaled on some obget the bladder as more apt to be rigured it it ifull and if the object i oblique from behind for
ward. In man the point of early may be through
or near the ansa. This is much the more frequent
mixinging, by are tent of the case, as such cases
both rectum and bladder are injured. If it post
both rectum and bladder are injured. If it
builder alone to probe of

In the treat class of cases the upper to the rectume may be arrisable in stems and severity. The prostite is rarel envol ed of by a creat being reported and fession of the unctur and semmal vesseles are also ran, but if the injury a olives the perinoneum the intextum may be perforated. Out of 55 cases the perinoneum was in i ed 35 times or in 36 per cent of the w. Cases of the second class are ran. or but forward beds to the controlled the perincum in the perincum in the controlled the perincum in the controlled the perincum in the

In somen the mot Irreputal less us a nury of the bludder the upt the same the posteror of the bludder the upt the same the posteror of the bludder the upt to the upt

in intensity and hamorrhag is generally abundant If urine flows out through the wound it shows that the bladder is perforated but this may not occur for some hours or even days after the accident eather because of anuma, or of retroperstoneal in nitration of the urine or because the edges of the wound are sealed up with clots so that it is not safe to conclude that the bladder is intact if unne is secured on cathetenzation. The urine may be discharged continuously through perineal or Vag nal sounds or it may accumulate in the amoults of the rectum and be d scharged only every two or three hours in the form of a I quid stool if there is a encorectal wound an I the anus to intact If the anus is torn there will be continuous discharge of unne and facal matter Injury of the rectum may be manufested by discharge of ga and facel matter through the urethra Symptoms of perstonitis appear if the perstoneum is invol ed. The lesions at the point of eptrance do not give any idea of the extent of inners to the blad ler rectum, and pentone um. The extent and form of the lessons are dis closed by rectal palpation and whether there are perforations of the rectum and bladder Cath etenzation f the ureter may reveal an injury to the ureter and the injection of air into the bladder shows whether the perstoneum is involved Recto

scopy 1 a valuable aid in the diagnosis The course depend on whether the mury is intra or extranentoneal Death resulted in 85 per cent of the cases of perstoneal involvement generally fter 4 to 36 hours but sometimes as long as o days afterwards surrocal treatment how es I has since lowered this mortality to 20 per cent The prognosis favorable in extraperatonesi cases the immediate mortality being barely 5 per cent muturnion by the natural route generally being nest bhshed completely although if the poing rich coasing t markery a through a warefurs he been inv l d there is not to be structure as a sequal. The point of first importance is the often difficult problem of anding whether the pentoneum is a closel or not. The bladder should be c that traced t once. If the putient has not urnasted to several hour if the bladder is empty. s d the urne has not collected along the course of the w und t is reasonably certain that there is an int spentoncal penetration of the bladder In suffiction of the bladder will reveal it. If the unue withdr wn by the catheter is clear it is probable but not errun that the bladder a intact if the urine is bloody it i doubtful. In such cases the patie t must b c retuils watched f r the very arst uga of p ratomitis Perioration of the perito neum being excluded the next thing i to determine whether it the wreter r bludder that is injured Cathetenzation of the ur to will determine this

Early complication are humorrhage and in alteration of the times into the retropertionsal or pel ic cellular tasses secondary ones are infection the formation of a retrorretal philegmon cystic accending py longibini orichitis and epadidynatis late one ent ble sequelar re instale and foreign bodies in the bladder these are often fragments carried into the bladder by the point of the injuring object sometimes bits of the object itself more rarely remains of food or intestinal parasites from the amoulla of the rectum. They may be discharged or remaining in the bladder may cause persistent finding the remaining the bladder may cause persistent finding the properties of the case the end finding the occur in 16 per cent of the case they may color undefinitely or they may color us mediantly or they may color us mediantly or foreign bodies hastens their closing.

I erforation of the peritoneum demands as early operation as possible This consi ts of laparotomy suture of the bladder and rectum removal of foreign bodies careful cleansing of the peritoneum and dramage In extrapentoneal sajuries expectant treatment is the rule except when a foreign body i retained in the wound or there are complications due to the size or irregular form of the mjuring ob sect Then under anaesthesia a careful toilet of the wound should be made and a permanent catheter inserted for removal of the urine Com plications will often necessitate secondary surgical operations such as the evacuation of collections of pus by the hypogastric or penneal route removal of calcul closing of fistulæ etc I TANTON

Gourson P Calcul: of Diverticula of the Bladder
(Riud s les calculs d'verticuleures de la ets.)
Thires d' doct Par 913 D c
By Journal de Chirures.

Calcul of this land may be lodged either in congenital or post operative diverticula of the bladder. They may descend from the ladney and become lodged in the deverticulum where they may increase in size but more generally they are found in micretic cases and are phosphatic. They may increase in zero to the size of t

The I thetrite does not give as clear a sound because the sto e a partly buned but retail pal pation often gives more e act information because the calculus a not pushed away by the foreign Cystoscopy who is may of may not be supplemented by rad ography of the bladder fit it is filled with collarged a sthe only way of getting exact information as to the conduct of the size and number of the calculu a d the degree of stricture of the ne k of the diverticulum.

Lifb triver not be used as a mean of treatment for these celoud section is the operation of close. If the calculus is a ge and frable it can be cushed while in post is one of the operation of the operation of the many be dat if with frinces I fliester of these procedures in possible the distribution must be mossed. Prostatectomy is and need as a supple mentary operat in for these calcular generally associated with ref tatio.

Marion G Resection of Diverticula of the Bladder
(De l résection d s di erticules ( u ) J
d el 013 1 785 By Journ l de Chirurgie

The removal of subpentoneal diverticula is sample when they can be reached and invaginated like the finger of a glove but it is often difficult when they are located laterally or postenorally and the walls are adherent to neighboring tissues

Marion had a case in a young man of 18 Cy tos copy showed an onface on the right lateral wall of the bladder and radiography after filling the bladder with collargol showed two cavities of almost equal olume lying beside each other He

recommends the following technique
Catheterization of the ureter on the side of the
diverticulum e ther before the operation through
the Ostoscope or during it through the opened

2 Suprapulse incision opening of the bladder and finding the location of the diverticulum with the finger

3 Dissection of the bladder on the side of the diverticulum till the pedicle of the diverticulum is reached

4 Income the bladder wall up to the ornice of the diverticulum

5 Dissection of the diverticulum one or more fingers are introduced into it and it is isolated like the sic of a herma a ureteral sound should be introduced to protect the unter

6 Resection of the pedicle of the diverticulum 7 Repair of the bladder wall by suture in two stages one involving the whole wall without penetrating the cavity of the bladder the other involving only the muscular layer

8 I art I closing of the bladder with drainage of the bladder and perivesical space. The perivesical druin is removed when the discharge becomes negligable and the bladder drain removed a few days lat r and replaced by a permanent catheter until the bladder is closed.

Heitz-Boyer M Mixed Treatment of Certain Tumors of the Bladder (Du traiteme t muste d reasnes tum urs \( \epsilon \) cales) \( \frac{J}{2} \text{ of } 0 \) of 13 1 793 Hy Journal de Chururge

The endoscop cal treatment of tumors of the bladder by high frequency currents electrocoagula ton (fleer) or electric sparks (fletti Boyer and Cottenot) is at present very much in from lieudes obs at g bloody operations it has the advant ge of allowing the pedicle to be treated more completely and surely. However when the tumors are I get the procedure as long delicate difficult and fatuguing vo for such cases Heitz Boyer proposes a mixed surgical and endoscopical treatment.

amixed surgical and endoscopical treatment.

The nint step consists of a hypogastic inc.
son the tumor bring revealed a champ a placed on
the ped cle a higature is formed below the champ
and the pedicle cut between them. The bladder is
noompletely closed and drained healing talkes
place by second intention. The operation may be

done under local annesthesas 11 days after the blad der is closed the second stage as undertaken that the endoscopical destruction of the remnant of the pedicle by a fig frequency current 's sense of cystoscopies are performed to complete the decision of the pedicle day and the period and the period recurrence. The author has made use of this procedure in two classes successfully I Taypo.

McDonald S and Sewell, W T Malakoplakia of the Bladder and Kidneys J Paikel & Becterial 19 4 in 306 By Surg Cyaec & Obst

Because of the extreme ranty of the condition the authors presented their case of the above to the Pathological Society of Creat Britain and Ireland in 1917

The patient a young married woman aged 42h had been control five months previously stee which time she had been in the continuously Three mouths later an absorb formed in the night finals. This was not opened 1 ut seemed to have disappeared although after that there had been severe pain in the right finals. Later there had been severe pain in the right finals and in the rules at the end of mixturnion but there was no shory of hermaturia or of the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the passage of railcui, there was rapid emacar to the respective to a special pain and the temperature was as per The absorbs was opened and 15 ounces of foul passage reasonated containing bacillus coi. On the patth day the temperature rove to rot 4 F and rasched 10g 6° F on the right day when the dird

to the post mortem examinat on there was found recent acute persearditis and a right pleural empire ma containing about a pint of thin greenish pus. There were patches of bronchopneumons in the lower lobe of the right lung. A recent operation wound in the left flank led down to a pennephne collection of pus. Then were dense inflammatory adhesions between the capsule of the kidney surrounding structures Throughout th kid es substance numer u sellowish white depos is were found varying in size it in a pin head to a third of an inch in diam ter The depos to were from and elastic some had hyperam a centers and some showed por is of suppurate softening a places they occurred in lusters and tended to fuse torether In one large deposit the greate part was grayish in color and strongly resembed the with leather center of a gumma. The nodules were 1 rgest near the surface of the k iner and the imost utirely replaced the halvey bata can the lower pole. The renal tosue was brigh peak in of

The renal traue was tright point in oil and een the parts free from the la ger deposits at wed minute points and streaks i affiritation through the medulla into the c rt x. Thapsecs of the papilla showed nodula 1 filt ation with hyperamia on the surface. The pelvies of the Audiery showed slight granulanty of the mucos The right kidney

showed a similar cond tion but the deposits were not so numerous nor so large. One mass of fused nodules contained irregular cavities filled with pay and the surface of the kidney appeared to have been infected from it. The arrangement of the less no on this side was more suggests e of an ascendi e infection There was superficial crosson of the paralle with whitish infiltration running in he into the cortex and the ureters were slightly d lated and thickened. The bladder was lightly dilated at the trigone and surrounding the opening of Loth ureters were numerou small rounded nodules ru-ed above the mucous averaging about one eighth of an inch in diameter. The notices were closely set and extended up the posterior wall almost to the fundus. The individual podules were amont to the tunious and individual so-succe were semitranspurent and graphs in color with a more opaque white center and were surrounded by a hyperzenic zone. In places they coalesced so that he mucosa was covered with relievable white heets of deposit in areas up to an inch in diameter other pelvic viscera showed no abnormality

The culture developed a pure growth of B on communas Lessons found in the kidney, and bladder were rientical. The impression conveyle by microscopical study was that an exentially new formation with a peculiar type of cell was here; dealt with and that there were secondary changes present partly degenerative and partly the result of an inflammatory could ingo associated with the

presence of B con communis

The secondary elements are class feel by the authors as follow (1) fite large pecular and characteristic rules between the large pecular and characteristic rules between the continuous cells—maistingulata cells of no Hanserson, observations free and untracellular bode which he been seen in the other recorded cease and which a lib as spoken of as the Virchaelis (actimate bodies after the unbors who first of sended them (all leurosytes cells of lymphocyte serves and fir class (all stoma and blood evels and (2) bedream

The large cells were found in the unknown the enthetical immg of the vatus being raised above the let sld the funcous membrane by these formations. The individual cells ar quite unlike say seen in inflammation, reactions If slithy looking unsilered cells pressure the following appearance. They essembled ter cells or rather tell of the signatural cortex where I mig lovest they are round or out but in denser portions they are round or out but in denser portions they are round or allowing as I might a light in I might I (seperate to hunger are

appare t appare t utmann bodies we found scattered throughout the deposit f large cells numerous bodies of ry pt ubar and characteristic nature. Thy were most numerous mude the large cells and la ge number ere tound toward the

Scatte ed th oughout th lessons were numerous polytrorphonucl at less ocytes some well preserved but many obviously of generat ag. Many lyts procyte c lls w r prese t they ere also most

numerous at the margin of the deposit and in the bladder they were found in the submucoss. At the margin of the deposits entirely different kinds of cells were found they were squalle shaped and looked like fibroblasts. The impression is that these

fibroblastic cells were merely acting a phagocytes Stroma accepted to be present in small amounts in the large cells in other place, thin walled blood channels were present—sometimes they were sun old in distribution. The blood vessels seemed to be of rather incredible number and speperired it he blood vessels in inflammatory tissue.

Studies for bacteria and spirochartes were made but no other organisms were discovered except the B coli communis

The authors refer to the cases described by Von Hansemann Michaelis Gutmann and Loele in 1910, and Hedren in 1911

Regarding the etiology I tile is known kimla suggested that they might be tubercular but nothing of this character has been proven

A fact that has been brought out in the table is the frequency of the condition in females. In mun; cases there has been an entire absence of any unnary symptoms and in the wide distribution of lesions throughout the unnary tract this fact seems

The author's case is of pecual interest from the fact that the noman was only 24 years of age and that the kidneys bladder and ureters were affected

There is no uniformity of opi ion in regard to these large cell of Von Hansemann Schaudinn could find no evidence of parasites in them The most popul r view as to their origin is that they are directly den ed either from endothel al cells I ming the lymph spaces in the tissues of granulating t saue or from granulating tissue cells The authors sug gested that possibly they may have something to do with adrenal rests. The M hael's Gutmann in clusions present extraordinary di ersity of opinion in regard to their origin. Michaelis and Gutmann saw in them a distinct resembla ce to Leyden s bird seve like bodies but Von Hansemann could see no such resemblance and seemed to think that they were not of parautic origin. Locle considers apparently that they may be derived from the red blood cells The authors consider them to be a product of cell inclusions and cell products saturated with blood pigments The bacteria always present so far have been B coli ommunis

The anthors observal ons do not at the present permit of an absolutely defin the conclusion as not be nature of this affection. While the bacillus collomous is counted by present in all reported cases set it is found so much me frequently that it could cause such a condition it may therefore be only secondary. Their studies suggest that the real cause may be due to certain cell nests of developed me ind ones procedured setting with the sasconated specific degenerative changes. This theory also has its objections.

The authors think the name is an unhappy one but was chosen by \ on Hansemann from \ \text{two Greek words menning soft and "pliques thus sug gesting a relationship with leucoplakin \ All agree that from whatever source these cells come they are not the derivatives of the superficial cells of the mucosa thus hanking the term inapplicable.

A C STOKES

Bauereisen A : An Unusual Parasite of the Fernale Bladder (Em seltener Pa asit der wihlichen Hamblase) Zit h f gyndk U of 1913 1V 74 By Zentralbi f d ges Gynak u Geh rich d Grenzgeb

A 37 year old woman had had paus and then fever for three weeks there had been a swelling in the lett lower quadrant which ruptured externally and dischanged pus. The cystoscope showed a perioration of the posteror bladder wall and a living ascars which was seared and extracted. The pattent grew worse with symptoms of pyzma and ded of embolism. Untopy showed deese bands of adhesion between a loop of small intestine and the bladder perioration of the bladder into an encapsy lated abusess taxity of the left pelvir peritoneum chronic pelvic peritonius and adhesive bands

Baueressen assumes that as a result of the numer of a charence (12) pelvic pentonsits occurre is which led to the format on of adhesive brings between the intests e and bladder the ascars then penetrated the adherent loop and the adhesion and finally got into the bladder COLINESS

Paoli G Cystitis with Incrustation (Des estites neru ta tes) The sed deel Lyon to 3 Nov By Journal de Ulu urgie

In this form of cystitis there are two sorts of lesions of the bladder ( ) a calcareous incrustat on which may cover its whole surface and which may be of urates but is generally of phosphates or mixed (2) destruction and necros of the mucous membrane and leucocytic infilt ation of the different muscular layers causing the disappearance of elastic and muscular fibers There is artenits and thrombosis of the veins The process ends in extreme hyper trophy of the bladder walls and reduction of the capacity of the organ sometimes to as little as 25 to 30 cm. The bladder loses contractility and capacity fo dilatation Paoli shows that these lesions may be observed in any bladder infection even n tuberculosis there is no specificity Clinical ly the affection resembles any other kind of cystitis. The extreme degree of hamorrhage and pain may lead one to suspect incrustation and cystoscopy is the only method of examination by which an exact diagnosis can be made. The prognos s must be gu rded on account of the frequency of renal com plications

There are two methods of treatment cystostomy and onuntion Rochet makes a hypogastric in casion remotes the incrustations with the finger or the curette and ends with a superficial curett get the whole bladder Zuckerkandl performs a more the whole bladder Zuckerkandl performs a more

extensi e operation in which the lesions are removed with scusors and a sharp cutette. The picerations are removed I he a new growth the openings brought together with categor sutures and the whole bladder cavity touched with tincture of indine. In the female curettage may be performed through the mether

The author reports cases of both these methods of operating each of which seems to have its value although there may be recurrence. He con iders ionization the treatment of choice using a lithium solution for unc incrustation and a chlorinated one for phosph tic incrustation GISTON PROT

Buerger L Smple Ulcer of the Bladder (Cn B true ut he t is in Ulcu simplex next) Fel rei 10 3 14, 543
By Ze traibl f d ges Gynal a Geburtah s d Grenogeb

From the study of his own cases Buerger dis tinguishes two Linds of simple ulcer of the bladder the superficial and the deep-seated or chronic callous ulcer These so called simple ulcers are of course to be distinguished from diseases of the bladder caused by spec he inflammations such as tubereu losis or syphilis as well as from new growth correctness of this assumption is confirmed by cystoscopical and pathological anatomical examina tions. The chinical symptoms are intense dysuna

and frequent desire to unnate there is blood and ous to the upoc The chronic ulcers are generally located in the region of the trigione. In space of the fact that they are called solitary ulcers there are apt to be at other places on the bladder mucous membrane one

or more secondary superheal erosions The quickest and most effective treatment is excision of the ulcerated parts of the mucous mem brane by means of an perati e cystoscope designed by the author and with forceps having cup shaped points In all cases of chronic cystitis with the symptoms described abov a careful examination should be made for simple ulcer the chronic cystitis and the very sens the contracted bladder ar onl secondary symptoms which disappear when the

#### GENITAL ORGANS

DE CL

primary ulcer is ured

Dorrance G M A Transverse Inc. ion for Opera tion on the Scrotum J Am II i Am If i o 4 lant, By hung ( new & Obst 457

The author describes a tans rec nuson to shortening of the sc otum. He claims that this incession is favored by the lift tion of the arteries and perses at the end of the scrotum and may be made between the cosels n this way a larger portion of the scrotum m | n moved Lakewise the cremisteric musch he tened a result not obtained by the longitud inc sion transversally antured. The author lum in the method produces a much bette closure that the longitude al 1 ( YES E incision

McGiannan A The Conservative Treatment of Undescended Testicle J Am M 1s , 10 ; Int. 60s By S rg Gynec & Obst kru. 6ns

Among the older writers the subject of nondescent of the testicle was treated chiefly from the standpoint of the tendency to the development of mahenant disease consequently the only operative procedure considered was the removal of the organ I urther study has shown that malignancy is a less frequent cond tion than was formerly supposed and occurs nearly always in inguinal retention Special interest is now centered in the functional power of the organ in an abnormal position the l kelihood of improvement of function if transplanted to the scrotum and the possibility of effecting such transplantation

The abnormally placed testicle tends to remain immature or if spermatogenesis does take place to undergo centle atrophy early It seems probable that placing the testicle in the scrotum early in life enables infantile organs to develop normally while the performance of the operation after puberty though not necessarily doomed to failure is less

likely to be beneficial McGlannan has performed the operation on 16 patients in none of which was there atrophy of the testicle - though in several it was necessary to divide the spermatic vestels - and the transplanted organ ha e invariably t in ined in the scrotum S W MOORREAD

lifer A Technique of Orchidopery (Zur Techni, der U hviope sej Z str ibi f Ck Schäfer A

9 5 1 630 By Tentralld | d ges Chur u 1 Creangth The uthor has a t always had the best results

with Witzel's method of orchidopexy so he has combined it with Longard Illumilateral syptorchism is as follows His operation in

The spermatic cord and the testicle are exposed and the cord tretched the abdominal ring is closed by Bassin muthod the ectopic testicle is pushed o er toward the sound side through a sit in the septum of the scrotum and the tw testicles are tixed to each other by a few ilk utures A silk sutur is passed through the lower pole of the ectopic test de both end passed through the skin of the ecrot m on the sound side d left hanging then both testicles are displaced toward the normal aide the slit in the septum 5 losed up as nearly as possible and the end of the ectops testicle fastened to the at real inguinal ring. Uter closing the lfter closing the sutur this washift hanging a dit a sutured t the thigh if the normal side. The wound is carefully drased to a d injection and after ten days rest n bed the utures n the scrotum at removed

In bil teral ryptor h m the procedure is the same only the di pla ment of the one testicle toward the other id is omitted. The utures on each aid are fixed t the thigh I the opposite side

DEVES

Codman E A. and Sheldon, R. F The Procuosis of Sarcoma of the Testicle Boston II & S J By Surg Gynec & Obst 014, clx 267

The authors report a case of sarcoma of the testicle which was first diagnosed as tuberculosis of the enididymis When first seen the tumor was small apparently involving the epididymis only and small nodules were present in the other epididymis and one emmal esicle is there was also a quiescent locus in the apex of one lung this diag noses was agreed upon by two genuto urmary and two tuberculosis specialists. At the end of 9 months however the tumor had increased to the ize of a small lemon Orchiectoms was performed the growth proving to be a sarcoma replacing the endidymi with a portion of the testis compressed to one side remaining. The sarcoma had not pen etrated the tumea albugmen

Uter mentioning the lat r jens as to class fica tion of testicular tumors as expressed in the rticles of Cheva su and Fwing nam ly that they are all embryomata the authors ducues the prognous of the disease and report the end results of 64 cases occurring at the Massarhueetts General Hospital during the past 40 years. Of the cases operated upon the mortality was 58 per cent - deaths due to

metastasis The cases of recurrence after operation all h ed le s than three years The o ly operat on performed wa orchidectoms Of 33 operated cases which died from the disca e 21 had no 5 gn of metastasis at operat n vet death o cu red in all within three ye rs These figures agree with Che as us show i g th t i patte t is safe only after the three we t

As to operate e measures, the authors believe thet where there is evidence of metastasi the dissection of the abdominal lymphatics and glands invol. d as advised b Chevassu Watson and Cunningham and others is justified HORACT BEN 1

Goodman A L. Tuberculosis of the Testicle dman A L. 146
Wed Re 0 4 lxxxv 146
B) Surg Gynec & Obst

The author deals principally with tubercul sisof the testicle in young childre and in a coll ctive series f or c se of different authors about o e h lf occurred lu g the first two y of life Hered to the inn pal part in the etiol ga

The auth it se eral crees in chill en be t W the ge. f 1 mo th and tw and one half If that that testic la tuberculosis may 30 apper thras primary related man festate sco l ry compli tio th ure of t crl tube culosis. Immars tubere losi the m tme to to ted until r ral and not the i guin fring t spres the fith a fieren the seminal he urnars og n 11 e it ext naing abo po tto nd the urnars og n esse tially curable loe not pec lly in he the epididsm as mad it or it esse tiall test cu lar tut n ol es both th t t le i the pid !

me blend og the organs into a pathological mass in which the primary infected organ can no longer be distingui hed Vacroscopical examination shows that the mass which I at first diffuse and indistinctly outlined has a certain tendency to become encysted the connective tusue which pro liferates in the icinity may even filtrate the gland in its entire extent and atrophy through testicular scleros: b often the outcome of the infection

In oth r cases the tubercular nodule suppurate as in adult cases it is adherent to the skin then a fistula opens at the extenor at the level of the tail of the p didymp as 1 the rule in tuberculous fistulæ more rarely other form of tuberculous are observed such as tubercular granulation or nodules scattered in the thickness of the gland grapulations or nodules in the head or tail of the epididymis The was deferens is often involved but although it becomes indurated as in a lults it is attacked only in the lower segment which is still enclosed in the scrotum

The tunica vaginalis is often the seat of a more or less profuse exudation in other cases the two layers ha e become adherent through a plastic proces f rming a shell as it were around the genital glan ! Secondary testicular tuberculosis is usually more extensive and no longer a manifestation of

an infection through the blood

In certa n patients the infection is propagated through the hymphatic group or by the vaginoper stonesi canal An ascending infection through the vas delerens is rather doubtful the lesions are some times bilateral in these cases and the seminal vesicles or the prostate are apt to be the seat of indurated nodules or even suppurative foci. Chinically these changes begin with acute symptoms or they may be chronic from the start. The chronic types are essentially indolent and their existence is only re ealed accidentally or by the appearance of absces and fistule According to all writers, the primary forms are relatively beingn in character whereas the remote results of the secondary group are extremely unfavorable and the invasion of the testicle is here interpreted as a sign of profound intoxication of the organism indicative of a fatal outcome CLARE CE R O CROWERS

Bugbee H G Further Observations on the Use I the High Frequency Spark for the Relief of Prostatic Obstruction in Selected Cases 04172

95 By Surg Gynec & Obst Th author reports four add tional cares of

benign obstruction and four of carcinomatous prost tes (making in all 22 cases) which he ha treated by the high frequency spark. He class fes the ases of benign prostatic obstruction su table for this method of treatment as follows

Small fibrous prostates form ng a hard ring about the bladd r neck not only con tricting the interuretene orifice but interfering with the fu c t n of the int rnal v 1 al sph noter

2 Enlargement of the median lobe unarcom

3 Lobes left after incomplete prostatectomy
4 All enlargements where peration is refused
or contra indicated by the condition of the patient
A one tenth inch spark is used and the tissue de
struction extends about one fourth of an inch below
the surface. The case reports show that after a
course of treatment some of the pitturns completely
empty their bladders. B S Barrora.

Bryan R C. Prostatic Hypertrophy and In-Rellet by Surgical Measures 1 & M Sur-Month 914 au 235 By Surg Conec & Obst. After a discussion of various factors in ethology and a symptomatology and a review of several

methods of prostat c removal Bryan concludes that the following are executal in the proper care of prostatic enlargement

1 Careful and not too hasty preparation of the patient for the operation from one to several weeks if necessary

2 The two-stage operation in infected cases and in cases of loss of cardiac an I renal compensation the cystostomy always bein done under local aniexthes 3

3 II gh vesical incision

4 Care about the space of Retzius
5 Intra urethral enucleation always by choice
the only instance where it cannot be done being in

the marked case of contracture of the neck. The nuccus membrane over the most prominent part of the gland is incused and the removal arried out 6 to preking of the proviatio cavity

y utelitral melication irrigation or in

8 Syphonage by double flow eather r which i kept up two to three trys of I roctocks is

to Facutage the consumption of liquid and food

11 The p tient should be allowed to star in bed ten days or more J S Extr. r r r Errorer P J Cancer of the Prostate Urol &

Cut Rev 9 4 k ti 69

By 5 rg ( nor & Obst

Frever report 276 ases ut enlarged prostate

Freyer report 276 ases at enlarged prostate of which 171 0 134 for ent w reductionalignant growth
The improves of malignant discale of th

product are similar i adenomations ceiling ment with other symptom unperadd d brong the symptoms are the raj d k elopment of obstruct yes symptoms during a few months special ju in patients under 50 and 0 r o yuars f age progresse to soo of wight a feing of 1 outside debition least a none or both thigh along course of prefuter or in the perincum a 1 just and sceneras in one or both butterk when sitting d wn the to pressure on merces

Treyer considers hermatuma a more frequent complication of adenomatous enlargement of mill g nant disease Physical examination shows a marked hardness of the proteste with irregular outline ill defined lobes and partial or total observation of the protess of the protest of the protess of th

As regards treatment Preyer states that in all vanced cases of caracinoms of the prostate t is quite impossible to effectively remove the gland and ameliorative treatment only can be considered However when the prostate can be removed to also while the malignant disease is confined which there prostate capsule then a perfect cure can be looked forward to The operation is attended with no more danger than in cuess of simple hypertrophy.

Legueu Morel, Marion Thérenot and Gayet Surgery of the Prostate (Contributions à la buurge de la prostate) C f d 121 franc d' al P en 9 3 Oct B J une de Cheurer

An entire session of their cent French Congress on Urology was tended to a discussion of the surgery of the prostate. A resume of some of the papers real follows

real follows

Leoure, and Mosta discussed the clinical value
of connormalism in prostatic cases. In studying the
flood of 85 patients with a mous disease of the
prostate there authors noted that the leutoryte
count aired according to the nature of the disease
count aired according to the nature of the disease
count aired according to the nature of the disease
count in op per c nt of the cases of adenoma. Independent of the effect of any parast to un infection
or medicine this cosmophulus a eraged 5 per cent
in cases of adenoma of the prostate which were not
i fected and i d not show humaturn. It was
appreciately all to the adenomats i r i theappeared
examination of the self-in aired and the self-in aired according to the control of the cases
arrounding the urectur an abnormal proportion
of eas nophiles a hithough the countrylation can
disproduce for specific prescription and an
adenoma and rea all in prostatic case i and
adenoma and rea all in prostatic case which it is adwhich this said would be usua nected.

Visitor reported having practiced suprapole monatectomy in arcuse of chronic pro latitude which had been treated for a long time by mentioned the state of the st

examination. Then an incision is made with a by tours in each of these projections starting from the neck and directed obliquely backward and outward passing through the bladder wall Then the finger is introduced into each of these inci ions and the prostatic lobes are di sected and removed This he claims is comparatively easy and he thinks it is a mistake to suppose that a prostate that is not hypertrophied cannot be removed by dissection There is a point on the anterior surface representing the excretory pedicle of the lobe that has to be torn The lobes are about the size and form of smooth symmetrical almond except at this point on the anterior surface

Marion a post-operative treatment is the same as after prostatectomy for hypertrophy With one of the patients who was 32 years old and had had complete retention for several months the result was perfect The other five had the usual symptoms of chronic prostatitis neurasthenia and discharge. In three cases the results were perfect there was cessation of pun discharge and neurasthenic symptoms. In two cases the results were incomplete, the discharge stopped but pain and neurasthenic symptoms per sisted The effects on the genital funct ons were as follows Erect on and sexu I sensation were normal but n two patents who were examined closely there we no ejaculation the other pati is were not ure in regard to this point. This is a serious consideration in young patients and it is generally they who re afflicted with chronic prostatitis. If the removal of the lobes of the prostate in this way does render the patient sterile t could only be used in special sea where all other methods of treat ment ha i absolutely fuled and the patient hould be told of it beforeha d

Tités exor d scussed the difficulties of d renosis and operat e dangers due to seminal vesicul tis in He has f und that seminal pro-tatic patie t esicul tis is r l tivel frequ nt in conjunction with hypertrophy I the prostate either in the form f tru uppurati co clerous vesiculitis or of peri es hits. The ext tence of a little mass prolonging th pro t t along the urethra and correspond g lymph tie tra t seeming t form a part of the pro t te and fi ing it to the neighboring soft parts may somet mes make it difficult to make a differential diagnosis between ommon hypertrophy and cancer of the gland

In Thee n t op mon the possibility of a suppu a esicul ti hould always be taken into con sid ratio fo ( ) It often accompanies prostat tis and inflammators adh one may make the enu lea tio of a fibro d prostate a ery difficult matter (2) the operation being performed n an field care mu t be taken to a old fter infection (3) it also to be f ared that the ejaculators ducts may d charge the pus from the vesicles into the prostatic wound thus can ing nfection

CANFT has tuded Ambard's urea coefficie t in pro tatic ases in a series of 54 cases in which he made 6 d terminations of the coeffic ent from which he draws the following conclusions coefficient by itself does not pretend to furni h a reliable picture of the anatomical changes in the kidney It simply reflects the phy iological condition of a single function the chimination of urea Retention especially acute complete retention is an important factor in azotæmia, the highest urea content in the blood serum is found in these cases But the removal of the obstacle by a permanent catheter or cystostomy brings about a rapid decrease of the uramus

The prognosis is grave only when it persists with out change after the retention has stopped. The urea coefficient makes it possible to follow very accurately the improvement brought about by the treatment of the retention and to choose the best moment for radical operation It does not duplicate the results obtained from determining the amount of urea in the blood There is cometimes disagreement between the results of these two method and Ambard's method reveals more latent cases of azotæmia. It is also surer and more reliable than the methods by elimination of coloring matters If it is supplemented by a study of the other renal functions elimination of water chlorides etc. and by a study of the nationt's other organs at aids in giving precise indications for operation and thus in moreying the statistics for prostatectomy I Diram\T

Lower W. E. A Technique for Performing a Shock less Suprapuble Prostatectoms 1 S f Phia 9 4 lix 78 By Surg Gynec & Obst

the shock producing factors of prostatectomy are the anxisthetic the amount of painful trauma tism and the hamorrhage Lower seeks to avoid th se factors by the following technique (1) At mini tering morphi e and scopolamine an hour before the operation (2) placing to to go com of 5 per cent alpinin solution in the bladder immedia ately bef re operation, (3) using nitrous oxide as the gen ral anasthetic (4) infiltrating with a 1-400 solution of no ocaine ( ) the site of the suprapulic incision in the skin and fasci (b) the anterior bladd r wall ( ) the bladder mucosa over the pros tate and (d) by deep injections the prostatic capsule at the sides of and beneath the gland (5) using

reful and gentle manipulations in the enucleat on (6) packing narrow strips of gauge about a ret med cath ter on top of the mucous membrane so as to obliterate the dead space bring the ends of the ureth a together a d prevent hemorrhage

S Il MOORRE D

n C. W Prostatectomy under Local Anses thesia, \ Orl M & S J 19 4 lz 1 581 By Surg Cynec & Olist

The author discusses the surgical technique of pro tat et my with local anæsthes a He injects one sixth of a grain of morphini, and on one hundred fiftieth gra n of scopolamine one hour before operating. The bild let is ope ed by in

ours media and are counterated somewhat in detail and the fact referred to that beguning mastorings is an inflammation of the mucous membrane I ning the masterid antrum and cells and to usually an acute process Development of osterus causes breaking down of the cell walls and the formation of cavities or even one large cavity in the mastor !

He describes the symptoms of acute mustoiditis which are well known and says that an acute sup purative mastorditis that runs a very brief course of three or four or ten days apparently recovering indicates a streptococcus mucosus infect on and three or four to six weeks later a fulminating type

of mastoubus may develop

He lays stress on one particular point in examin ing scute and subscute cases viz that as the inner most portion of the external auditors canal at its postero-uperior quadrant forms a part of the antral wall and if inspection shows a bulging over this area delay in operating is at best a waste of time as an operation is indicated and postponement only seopardizes the patient a bearing or even life. This be considers the most important mulcation for an early operation with the exception of symptoms of a gra e nature indicating intracramil involv ment

As a means of diagnos it ansillumination is recommended by the wnt t but he admits its unreliability and perhaps for not give unicient importance to the skingraph with his a gry useful at I to diagnosis Ba terum aun I the blood count ad ocated by Mckernon and Sondern as an impor-tant aid and the coagul bility fibe blood on which Lebantschusch lavs some at ess re also cons dered

as a means of inferential diagnosis The prognor s of ma tenditis he considers depends on so man factors that es n to name them would occupt too much pace Whi e there is free drainage with no complication as is generally conceded there is no danger to life but the applies to the time being only for 1 and time this free cut of the discharge may bee m obseru ! I and serious as mptoms supervene II el is to the fact that a large percentage I acute me touditis may recover nut suitable or e n nest sent tre tment but m bronic mastordit sith percentage simu hismall r which would seem quite b tous The outlook for the voung he considers not so good but after the age of forty it is much better

The treatment of mastorditis is divided into prophylactic conservative or ameliorative and operative the prime object being conservation of hearing he prophylactic methods he recommends the removal of the u ual predignosing causes free and prompt user son of the dram membrane in scate otitis media thus establishing free draipage. Suit able treatment in every case of discharging ear hould be recommended. In ameliorative treat ment asepsis he regards as the sine qua non he m of the opinion that irrigations with the mildest antiseptics may be used rarely but thinks it is a method not much to be recommended and prefers alcohol or benzine as a better means of cleaning the account retermine his a occur means or received ear and dressing with a strip of gauze best meets all requirements. Powders he says are practically no more used as they do not penetrate the crevies and are ant to cake and thus interfere with drainage

to the best treatment short of operation be recommends the use of alver a trate or copper sulphate or the cautious use of the carette or share to destroy granulations followed by alcohol ta-stillations. In acute cases the usual treatment is

adopted
The author behaves subscute cases are some times modified by the u e of Crede's outment or mercurial emplastra and mention is made of the leucodescent 1 mp ha mg come ad ocales. He to of the opinion that operation on the mistoid should be performe! more frequently at an early date and the danger to life ad he ring by postpone ment 1 (mphasized W. H. J. st. 2004)

Bril lin W C. The Use of Vaccines after th Mattoid Operation In Col Rh of & Larya-By Surg Cyrec & Obst gof 9 4 MM 1085

The author reports the (avorable result obtained a fi e out of six cases treated with vaccines autogenous or stock fo bacterial infections complicating mast I cromy He reports case presenting com-pleations of infiltration of the cervical glads, elevated temperature of obscure cause delayed granulation of wound pain a limbs and back post-operative pneumonia and infection of the labymnth FLUEN | PATTERSO

## SURGERY OF THE NOSE, THROAT, AND MOUTH

#### NOSE

Oppenheimer S: The Surgical Anatomy Diagnosis and Treatment of the Inflammatory Affections of the Naval Accessory Sinuses in Children Med Rc 9 4, Irxxv 38

By Surg Gance & Obst

It i the author's opinion that sinusits, both acute and subacute is more common in the child than i generally, conceded and this statement applies not only to the adolescent but also to the small child and infant

Smearith in the chief as practically near of primary or in the close relation of these transitions that the close relation of these transitions of the control of the control of the close of the close

The author advocates conservative treatment based upon the restoration of the drainage system with as little destruction of tissue as possible

ILLEY | PTT ON

Beck, J G Ilistologic Pathology f the Access ry Simuses 1 Otal Rh of a La y gal q x x q 3 By S g (y e & Ob t

From his tind ags in the tudy of the minut pathology in 40 cases operated upon for hrom smastus suppurtus and nonsuppurative in which the symptoms of a thma were prominent the author bases the flow ne conclusions

That it prithological changes found in the middle turbs ites in ethiosoid asthma cases and non uppurate it how rarefects in of those resembling that for no dearly in osteomalicia acrom galia and it sele os disturban so o po ibbe etiol gical faitor in som disturban so o

the polyglandult 33 tem la nonsuppur ti nusiti the con p u u absence f nflammat ry element and the prise ic of mixomatou i generation at the spen-e f k

of glandulat fru t reat very prarent
3 In suppuration units the grat pelin
of round-cell lit at in with tend news i necr
and granulatin from thoms. has eteratic

and granulatin if finations has ctensur.

4 The ling of the larger inners proteat 1 supports experience of ged stoprecluse resolution and the silver cannot be officerated 1 the entire epitheli [1] mg. lest ed.

5 The pathological characteristics of both suppurative and non-uppurative forms of sinusitis are frequently met with in the same case

6 The similarity in the changes of atrophic rhuntis in the early stages and of non suppurative simusitis, especially in the bone would suggest a imilar etological factor in the disturbance of the rlands of internal secretion. ELEY I PATTERS

Rau E. Diseases and Pathology of Assal Accessory Sinuses. Ay V J 1914 au 100 By Sur Gynet & Obst.

It has been claimed that of the bactern most often found as a causative factor of must decise the nitrena bacillas holds first rank, the pneumococcus meet staph)looccus in yogenes aureus and albus and the attentococcus progenes — but whether they enter dreed; through the mass] passages or are carried by way of the blood stream has not been fully determined.

The pathological changes that take place in these nfections and inflammations of the sinuses depend upon the virulence of the infection the length of t me that the disease has been present the amount of resultance the sums has to inflammation and the on hition of the drainage system.

EL EN J PATTERSON

Dabney S.G. Symptom and Diagnos s of Diseases of th Nasal Accessory Sinuses Ky M. J. 1914 By S. r. Gynec & Olst

The author cites the cardinal sympt ms subpictive objective and external of catarrhal and purulent inflammations: If the innues and consulers the differential diagnose can be said includy, made by local examination of the nose treth and eyes ong ther with transllumination and radiography. He mentions the perception by the printent of a diagneeable small present in the nose as an impotant (cat in of p s 1 a sinus generally in the maxillary.

The important point in the treatm int of all case is nutilist to create and maintain unobstructed drait age of all inuses and to institute general limin to e treatment.

In those c es requiring intranaval operation the uthor uses local a exthesis and after oper it in ppl es a dr pperful of argivel (25 per cent) and no packs g but the ible perferated phint (k)le ). The author thinks few crees require attenty

filtration anaesthesia the vesical surface of the prostate is then injected near the base of the gland The needle is passed through the mucosa in an attempt to infiltrate the region between the mucous membrane of the bladder and the capsule of the prostate Two or three drams of a one half per cent solution of povocaine containing 15 minims of adrenalm to the ounce is injected at each of the above points If the gland i very large or there is much of a projection above the urethral opening other injections may be made A uppository co trining ten grains of anasthesia is introduced into the rectum in order to angesthetize it so that a finger can be introduced without any discomfort The writer remarks that in many car's the introduction of the two step operation is justifiable the I ladder being drained first by local angesthesia the prostate being afterwards removed

While the author's paper is not exhausting and he does not go much into ditail nevertheless the reviewer is of the opinion that this or some similar technique will solve many of the questions involved in difficult mostal comies. V. C. Stokes

#### MISCELLANEOUS

Gailiard A T Modern Laboratory Methods in the Diagnosis of Surgical Diseases of the Genito Urinary Tract A S g Phila 014 lix 267 By Surg Gynec & Obst

Under the above title Ca flard or sents the clums of microscopy of the urine to the position among laboratory methods in the examination of patients suffering from lesions of the urogenital tract finds it possible to thus recognize the site of the lesions, by the character of the p thel al cells its charget r l y the varietie f cells and intercellular tissues present and the nature of the i d vidual by the nature of the pus-cells constitut o these being coarsel granula fractive and without sable nucles when the body I sistance is good and finely granular with is ble nuclei and irregular cell margins when the onstitution becomes m paired Malignant disease can be recognized fter pleeration ha taken place by the presence of the characteristic tumor cells

Cryescopy and the no the rest of renal sufficiency are summaril disposed of follow. Three tests has be nobust referre it out to be condemned for it is duficult to under it of the turns about the wasted on them when microscopical

evamination affords uch positive proof of all that we desire to know regarding renal sufficiency or insufficiency S W Mooresen

Nicoll C., and Blaizot A Non Toxic Antigonor rhoral V crune and its U ein th Treatment of Gonorrhora and its Complications (U acra it gonococcup atox que so pplication trat ment de Li Bienorrh gue et de ser complica

tra t ment de la blenorrh que et de es complica tio ) I d of 913 i 734 B3 Journal de Chirurne

Vaccination for gonorrhota like all other vaccine treatment has hitherto met with a seemingly unsur mountable obstacle the toucity of the vaccines Bestedla sensitized vaccine was a step in the d rection of overcoming this but it was not enough There was always a reaction following the inocula

t on of the vaccune and sometimes it was very violent moreover sents used vaccine are not stable. Incolle and Blassot his e ucceeded in e triefy or erroming the toructry of the vaccine sent endering it stable. The effects of their vaccine treatment is remarkable judging from 200 cases 32 of ment in the control of the vaccine treattion of the vaccine treating the vaccine treatseries of the vaccine treating the vaccine treatting treating the vaccine treating to the vaccine treating treating treating the vaccine treating to the vaccine treating and 27 cute or chronic uterlinit. Cases of polithelms recovered after only a few moreolations

thus avoiding any serious ocular complication In orchitis the pain stops a few hours or a day after the first inoculation and the temperature falls This rapid recovers prevents sterility. In g a orthoral rheumat am the patient recovers e y rapidly after 2 to 8 inoculations the authors cite th case of a wom n who had had it for eight months and had recovered on the eighth day of tre tment action of the vaccine i qually prarent in both cute and throme urethriti pain cystitis, and di ch rge stop quickly often after the third morula t n old discharges lso are out kly cured None of the patient t eated in this way h d orchitis so that moculation of th non e pres nt e tra rethral complication I w men the r suits seem to be th ame a in men Reco ery was very rand in the cases of metriti and salpingitis

In the treatment ne half cem of vecuse is nected each to Thre militions of merobes are diluted with e an ion half cem of physiological solution. The ny ton made nire enously or intramuscul is it is it less and not accompanied by ny febric re ction I ute cases appections a erepeat of every dry revery two drys n chronic mese ervi wo to fou days.

## SURGERY OF THE NOSE, THROAT, AND MOUTH

#### NOSE

Oppenheimer S The Surgical Anatomy Diagnosis and Treatment of the Inflummatory Affections of the Anad Accessory Suruses in Children Wed R c 914 lvxv 328

By Surg Gynec & Obst

It is the author's opt ion that aimistis both acute and subacute is more common in the child than is generally conceded and this statement applies not onl to the adolescent but also to the small child and infant.

and meant

Smustes in the child is practically sever of primary origin but the close relation of these tassues with the sead muccos as such that when the latter is Inflamed the former must invariably be simultaned to the sead of the s

The author advocates conservative treatment based upon the restoration of the drainage system with as little destruction of tissue as possible

LLIEN J PATTERSON

Beck J C. H stelogic Pathology of th Accessory
Sinuses 4 Otel Rh of c La y gel q 3
xx q 3 By S rg Gynec & Ob t

From his inclings in the study of the minut pathology in 140 cases operated upon for chronic sinusitis suppurati and nonsuppurative in which the symptoms of a thma were prominent the author bases the follows g oc clusions

That the prihological changes found in the midde turbin tes and thimad assima cases and anonsuppurat e us its show rarefaction of the bone resembling that four dearl in osteomakar acromegaba a dotostlerous and is suggestate of a possible etiological factor in some distu bances the polyslandular y tem

In nonsupp at e mus tis the conspicuou absence of fiammatory elements and the presence of myxomatou legeneration at the e pe se of lo

of glandular tructures is very apparent
3 In uppur it e simusit the great prevalence
of round cell hitration with tendencies to necr is
and granulation formations is characteristic

4 The ling fithelings inuses in protracted suppurate et pes is so changed as to preclude resolution and the si u cannot be oblite ated unless the entre epithelial lining is destroyed

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Rau, E: Diseases and Pathology of Nasal Accessory
Sinuses A; If J 1914 III 00
By Surg Gynec & Obst.

It has been claimed that of the bacteria most often found as a causture factor of anns denses the influence because the factor of anns denses the influence because the present of the present next staph benecus progenes arrays and albus and the streptococcus progenes—but whether they enter directly through the nasal passages or are carried by way of the blood stream has not been fully determined.

The pathological changes that take place in these infections and inflammations of the sinuses depend upon the virulence of the infection the length of time that the disease has been present the amount of res stance the smus has to inflammation and the ondition of the drainage system

CLIE | PATTERSON

Dabney S G Symptoms and Diagnosis of Diseases of th Nasal Accessory Sinuses Ky if J 914 22 By Surg Gyne: & Obst

The author cites the cardinal symptoms subsective objective and external of catarrial and purulent inflammations of the sinuser and considerate differential diagnoses can be satisfactorily made by local examination of the nose teeth and eyetogether with transillumnation and radiography. He mentions the perception by the patient of a diagnetable small present in the nose as an important and cation of pus in a sinus generally in the maillars.

Stucky J A and W S Treatm nt of Diseases of the \u2218ssal Accessory S causes Surgically and Otherwise Ky M J 0 4 xm 05 By Surg Gynec & Ob t

Th important point in the treatment of all cases of sincistis s to create and maintain unobstructed dra nage of all sinuses and to institute general climinative treatment

In those cases requiring intrinated operation the author uses local anæsthesia and after operation applies a dropperful of argyrol ( 5 per cent) and no packing but a flexible perforated splint (Kyles) the author thinks fee ca es require extranssyl

operation if properly cared for but all treatment both operative and post operatic should be strictly assptic and aniseptic and especial attention should be given to the internal secretions and excretions Liky J Parrisso,

MacFarlan D: The Initial Incision in the Submucous Operation. J Ophis Old & Laryngal 1914 xx, 83 By Sur Gynec & Obst

The author considers the unitial incision of paramount importance in the success of the submucous operation. He advocates a straight cut beginning high and posterior to the junction of the columnar and transpular cartilages and inchined forward as

it reaches the floor of the nose

Like J P FIRESON

MacKenzie G W1 Complications that May Arise During or After the Submucous Operation for the Correction of Septial Deviations. Ann Otol Rinol & Lary of 1914 px 1 20 By Surg Gync. & Obst

Complications which may arise during operation are cocaine and adrending postuming are embolism when infiltration smeathers is used laceration of the mucous membrane from faulty initial incit on per foration of the mucous membrane from supply apply and the mucous membrane from rapid care less work retention of bone fragments fractive of the bony septimum and faulty packing after overettion

In order to avoid infection the author operates under strictly aseptic conditions (never performing turbinotomy at the same sitting) and avoids operating in the presence of any acute inflammation of the nose or throat

Other complications which may follow operation are harmatoma, crysipelas acute sumsitis, and external deformity

FLEN J PATTERSON

Carter W W Operations for the Correction of Deformities of the Nose Hed Rec 914 inxxv 237 By Surg Great & Obst

The author has do used his bridg agalot operation to correct most deformaties where there is no loss of tissue while in those cases where there has been more or less destruction of the bony and cartisgnous framework, of the nove he uses bone transploration. The bridge splate to counts of one plantation of the bridge splate to come to the plantation of the order of the splate that the values of which are padded on the edge with the two surgs of which are padded on the edge with the two surgs of which are padded on the edge with the two surgs of which are padded on the edge with the two surgs of the three bridges and their plate of the deformanty in the model and their plate controlled by thumberer where there is not not considered and the sature carried through the mod install and the sature that the country that the same to pull the rose into proper position and thus some correct internals as well as external deforming

In those cases where there is a defic ency of the bony framework the author considers that bone transplantation under strict asepsis in every detail as indicated. He makes a curvilinear incineo convenity downward between the eyednows to the periodicum over the frontal bone and desting this flap he makes a transverse increas through the periodicum and into the bone in order to find categoriesis at this point. Wer elevantly the periodicum for three-eighths of an inch, he than its the skin and subcutaneous tissue over the dearm of the nose and without renoving the blood from the nasal wound, introduces into inches of the much inh with periodicum preserved on the outer surface and the upper end materied under the periodicum flap and closes the wound with horse hair sutures

#### THROAT

Dabney, V Immediate and Remote Sequelæ of Radical Remoral of the Faucial Tonail Observation of Two Hundred Cases. Aise Me Rh nol & Laryagel 1913 EN 5003 Gynec & Ohe

Immog the sequebr following tomalitectomy the author classes primary and secondary beamorings as most important, then hyperpyreus infart of the lung spass emphysems preumons pleany rheumatism net our phenomena and injury to the pullars and address. In order to aword these he thinks the operation should be performed in a hospital inder rigid stepas, by one experienced in the performance with the investible to the pertending the properties of the percept and the convalence readously collowed expet and the convalence readously collowed.

Roberts W. H. Tonsillectomy in the Upright Position under Ether Laryngozoge 1914, 22v 132 By S vg. Cyanc & Obst

The advantages in operating in the upright position are good illumiation and accessibility of the parts to be operated on freedom with which the assistant can groupe control of humorrhage and pre minor of entrance of blood into the larg at theroughness with which the operatic e field can be examined for tonal remnants and case of control of relation bead by the anneathesist.

The technique of the author's method operating as follows. After the patient is arreplated in the prone position by a placed in a chair in front of the operator who is sealed the absenders stands behind the patient to control the head and continue the administration of either through a rube introduced int. the right matrix of the through a rube introduced int. the right matrix of the result of the disease of the disease of the disease of the disease on with a blust pointed Tydings a faste and the finger and fissahes the enucleation with the Tyding sparse.

Johnston R H Straight Direct Laryngoscopy
Bronchoscopy and Camphagoscopy Am J
Su g 19 4 xx m, 47 By Surg Gynec & Oht.

The essentials of a successful bronchoscopust are a thorough knowledge of the an tomy of the parts a steady hand extraordinary skill in handling instruments and patience and perceverance to carry him through hours of hard work and disap po atment

The author considers it a mistake to economize on instruments and personally prefers those devised by Jackson of this country to those of Killian and

Brunings of Europe

The use of general anasthesis is more prevalent in Europe than in this country as American opera tors are gradually getting away from general anaethetics believing that they greatly increase the danger of tube work. In endoscopical examination of children under four years of age the author uses no anaesthesia but in children over eight years of age he uses ether anæsthesia for bronchoscopy and deep eesophagoscopy and for local anaesthesia in adults he considers alypin and notocaine less toxic than cocaine ELLEY T PATTERSON

#### HOUTH

Blakeway II The Treatment of Harelip and Cleft Palate P di mer Lond 914 xcu By Surg Gynec & Obst

This paper was presented with a view of facilitat ing discussion as to the kind of operation which will produce the best results both cosmet and functional

especially as regards the once

The author briefly re news the history name g Le Vonnier as the first to operate in 764 In 15 6 Von Graefe sutured and cured a cleft of the soft palate In 819 Roux reported what was supposed to be the first staphylorrhaphy \in important ad vance was made in 1845 wh n Fergusson advocated the division of those palatal muscles which by the contraction might separate the dges of the cleft and by the year 1864 had operated upon 134 cases obtaining union in 129 of them he operated at or after puberty and never used chloroform

In 1850 Weber of Bonn advocated a method los ly allied to the Brophy method and two years later Reeves tried much the same process by slower means using a padded horseshoe shaped clamp. These suggestions were lost sight of so many years until they were re ned and improved upon by Brophy

To La renbeck belongs the credit of being the first to deliberately plan the stripping up of muco periosteal flap and clos g the cleft his age of choice

for operat on being 12 to 15 years

The great ad ance was made by Thomas Smith who in 865 advocated operating upon small children before they had learned to speak using bloroform as an angethete The adva tage of operating upon the barelip in a double case is that when the lip is closed the cl ft will also close to a very conside able extent The uthor's cnt cism of La es ope ations

is that there is too much scar tissue formed which renders the soft palate less phable from the series studied the mortality wa found to be 14 3 per cent

In cases operated upon by the Langenbeck method the mortality was practically nil the prospects of clos ure are good even though requiring two or three oper ations and while the functional results are at times perfect as a rule there is much to be desired author does not agree with Brophy from an embry ological standpoint

As to the prospect of closure of the bony palate the author has not seen cases in which more than the alveolar arch has closed As to speech development he has not seen patients who have learned to speak subsequent to the operation and says. He Brophy makes no appeal to a series of cases to prove his statement that the patients learn to speak normally

The author concludes that the Langenbeck opera tion is the operation of choice offering the best re sults both anatomically and functionally If asso crated with harelip the lip should be done first at the age of 2 or 3 months and the cleft at about the end of the second year H A Ports

Dean L. W Report of a Case of Compound Follicular Odontoma of the Superior Vlaxilla Ot ! Rh of & La yagel to 3 xxxx 1 77 By Surg Gyner & Obst.

The patient a young woman aged 20 years sought rehef from pain in the upper third molar. The removal of the pulp and filling of the root canals did not reheve her and the tooth was extracted Two weeks later a seropurulent discharge appeared from the socket and a number of rudimentary teeth were discharged through this opening Examina tion showed a sinus leading upward from the socket of the upper right third molar which it I into a large ca it; I diagnosis of odontoma was made

large ca it; I diagnosis of odontoma was made An opening was made into the maxilla abo e the ganga | border and a cavity extending forward o er and external to the first and second mol ra and inward to the median suture was exposed cavity contained a number of rudimentary teeth and irregular pieces of bone thirty five in all. The antrum was opened and found normal. The cavity was drained through the antrum and nose. The external wound was closed but respensed and was finally closed at a second operation

In closing cavities in the maxilla which com municate with the mouth the author remo es enough of the alveolar process to ins re a good apposition of periosteum covering the external and internal su faces of the process. These flaps are then brought together by means of silkworm gut which is passed over strips of ery narrow rubber tubing The suture holds the splints one on the hugual the other in the buccal in place H A Ports

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## GYNECOLOGY

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